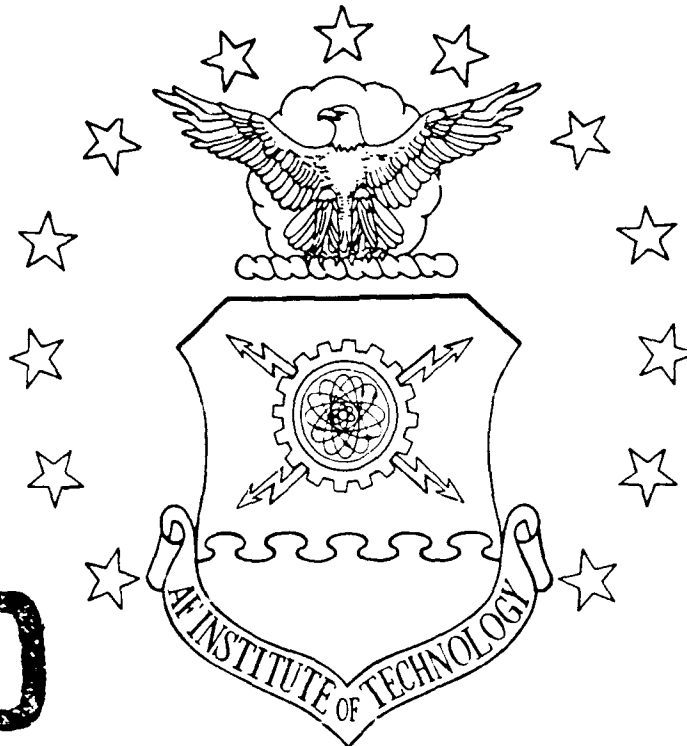AD-A215 615

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A COMPUTER BASED DECISION SUPPORT
SYSTEM FOR TAILORING LOGISTICS
SUPPORT ANALYSIS RECORD (LSAR)
REQUIREMENTS

THESIS

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A COMPUTER BASED DECISION SUPPORT SYSTEM FOR

TAILORING LOGISTICS SUPPORT ANALYSIS

RECORD (LSAR) REQUIREMENTS

THESIS

Presented to the Faculty of the School of Systems and Logistics

of the Air Force Institute of Technology

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In Partial Fulfillment of the

Requirements for the Degree of

Master of Science in Logistics Management

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Michael A. McGovern

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Abstract

This thesis involves the development of a personal
computer program to help tailor Logistics Support Analysis
Record (LSAR), MIL-STD-1388-2A, requirements for system/
equipment acquisition efforts. It is referred to as the
LSAR Decision Support System (DSS) Program. This program
is intended to aid working level logisticians bridge the
gap between tailoring MIL-STD-1388-1A tasks and completing
the DD Form 1949-1, the end product of a LSAR tailoring
effort.

There are five main features in the program: 1) an
overview of the DSS, 2) a synopsis of LSAR tailoring
guidance, 3) the actual tailoring portion, 4) a program to
review and update a user's previous effort, and 5) a program
to produce output to either screen or printer. The
programming language used is dBASE III PLUS; it is required
to run the LSAR DSS Program. The program structure is
designed to be similar to other dBASE III PLUS LSA
programs which are currently in development and allows for
easy update and/or expansion.

A COMPUTER BASED DECISION SUPPORT SYSTEM (DSS) FOR TAILORINC LOGISTICS SUPPORT ANALYSIS RECORD (LSAR) REQUIREMENTS

I. Introduction

General Issue

Logistics Support Analysis (LSA), as defined by MIL-STD-1388-1A and 2A, is an iterative process which attempts to consolidate all useful support related information into one data base. AFLC/AFSC Pamphlet 800-34, "Acquisition Logistics Management," states:

> The objective of LSA is to structure, within Systems Engineering, a process to systematically pull together all the engineering functions that contribute to the design, development, and deployment of an integrated logistics system. (8:10-1)

Once consolidated, the information is then analyzed and used to make decisions regarding design, production, test, and other supportability issues throughout the life cycle of the system or piece of equipment. In particular, the Logistics Support Analysis Record (LSAR), defined by MIL-STD-1388-2A, is an outline for building and storing this information. When developed properly, the LSAR provides information from a single data base to logistics decision-makers and maintains an audit trail for those decisions (8:10-2).

LSA is now mandatory on all new acquisition and major modification programs (7:2). In addition, the Department of Defense Acquisition Streamlining Initiatives require tailoring contractual requirements to specific program needs (5:4). The term "tailoring" refers to the specific application of the tasks outlined in MIL-STD-1388. It involves taking generic work statements or requirements and applying them to the contract in the degree called for by the program. MIL-STD-1388-1A and 2A are designed to be tailored to each program's requirements, however, there is limited guidance available to help the logistician accomplish this task. In his thesis, Capt Paul Dunbar developed a tool to aid the logistician in tailoring MIL-STD-1388-1A tasks. He consolidated existing information and guidance into one source for tailoring MIL-STD-1388-1A tasks (15:4). A similar tool for tailoring MIL-STD-1388-2A is not currently available for USAF logistics managers. This research represents an attempt to develop a decision support system (DSS) for tailoring the LSAR in a format similar to existing LSA related DSS programs.

Specific Problem

In 1985 this researcher was tasked to develop a LSA program, complete with LSAR, for a major modification to a small number of aircraft. At the start, there was little existing documentation and limited expert advice to help tailor the 15 major tasks of LSA and the 15 separate records

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or data sheets of LSAR outlined in MIL-STD-1388-1A and 2A. Because of the program schedule, the logistics manager was forced to make long-term decisions regarding the application of the military standards without complete information. Once in place it was difficult and costly to make necessary changes as the program developed. Most of these changes could have been avoided if more information had been available as the LSA program was first being developed. This research addresses the development of a decision support system to aid the working level logistician in avoiding similar problems.

Investigative Questions

To develop a decision support system for tailoring LSAR contractual requirements the following questions were addressed:

1.) What is Logistics Support Analysis?

2.) What is the Logistics Support Analysis Record?

3.) Why is tailoring LSA and LSAR important?

4.) What current tailoring tools exist?

Scope of the Research

This research is limited to developing a tailoring tool which will provide the initial outline for a LSAR program. It has been designed for use by a logistics manager who has a tailored MIL-STD-1388-1A program and is seeking guidance on tailoring MIL STD-1388-2A requirements. As a Decision

Support System (DSS) this tool is designed to help the logistician, not replace him or her. It is not the intention of this research to provide a complete and final version for all types of programs. It is also limited to the contractual requirements associated with the Logistics Support Analysis Record as defined by MIL-STD-1388-2A.

II. Literature Review

Background

11 April 1983 was the official release date of Mil-Std-1388-1A. This date also marks the required use of a logistics support analysis process on all new acquisition and modification programs in the United States Air Force (1:24). MIL-STD-1388-1A is the Defense Department's implementing document for conducting a Logistics Support Analysis (LSA).

The development, implementation and successful use of a tailored LSA program is a complicated task. Now required on all new contracts, the LSA program must be tailored to the individual needs of each program, but only a limited number of tools exist to help program office personnel develop a complete LSA program tailored to fit individual program requirements. The Deputy Program Manager for Logistics (DPML) and his/her staff must now have a working understanding of both their specific program and MIL-STD-1388 to make LSA work for them and not serve as a square filling activity.

A recent study, conducted at the request of the USAF Deputy Chief of Staff for Logistics and Engineering, found that "improvements in education and training of Air Force personnel and the tools used in analysis and data manipulation are necessary (9:2)." In 1987 similar findings

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were presented by Mr. Dyke McCarty and Lt Col Robert Bayless when they highlighted the importance of trained logistics personnel in their article "View From the DPML: Performance and Supportability." They found that the lack of trained personnel was second only to poorly defined requirements as the biggest constraint experienced by DPMLs (20:3). This review will concentrate on what LSA and LSAR are, why tailoring LSA and the LSAR are important, and current tools available to help tailor LSA.

Investigative Questions

This section covers the investigative questions used by the researcher to determine the requirements needed to tailor the Logistics Support Analysis Record to a user's specific acquisition program.

What is LSA?

Logistic Support Analysis (LSA) is a process. This process is defined by the ALD's Guide for LSA and LSAR as:

> LSA is an iterative (repeated again and again) analytical process within systems engineering. This effort requires continual interaction between the designer, support analyst and the logistician to identify, define, analyze, quantify and process logistics support requirements. Through this process, LSA integrates the logistics support requirements or constraints into the design of the hardware. (2:8)

In other words, LSA is the tailored approach for systematically identifying and meeting all Integrated Logistics Support (ILS) objectives. This is a top level approach to a complex and dynamic field. As mentioned in

the definition, LSA is part of the systems engineering

process. Systems engineering is the iterative process of

obtaining the optimum balance between cost, schedule,

performance, and support (18:38).

> It is the engineering process that transforms a
> military requirement into a description of system
> performance parameters and a preferred system
> configuration through the use of an iterative
> process of definition, synthesis, analysis,
> design, test and evaluation (2:8).

Within this concept of systems engineering, LSA's objective

is to structure a systematic process combining all functions

that contribute to the design, development, and deployment

of an integrated logistics system (8:10-1).

Mil-Std-1388-1A breaks this systematic process, or the

analysis of the process, into five major areas and

associated subtasks. The five major areas are:

1.) Program Planning and Control

2.) Mission and Support Systems Definition

3.) Preparation and Evaluation of Alternatives

4.) Determination of Logistics Support resources

5.) Supportability Assessment

These five areas if correctly managed (and updated as

required) can form the basis for the ILS program which will

carry a program from concept exploration to the day it is

retired from the inventory (1:24).

What is LSAR?

Once information and data are generated by the tasks

outlined in the five LSA areas they are documented in the

Logistics Support Analysis Record (LSAR). The LSAR is controlled by Mil-Std-1388-2A. As stated in this military standard:

> The LSAR is the medium through which task results and support resource data are recorded. The LSAR is established to provide centralized, systematic, controlled and cost-effective means for input, storage, analysis, and retrieval of data generated through the LSA process. (2:9)

Its purpose is to serve as the single integrated logistics data base for acquisition programs, identifying logistics design and resource constraints, and finally to provide an ILS development audit trail (1:10).

The LSAR is the source for handling most Integrated Logistics Support elements. For example, it can generate initial technical orders, support equipment requirements, packaging, handling, storage and transportation documentation, supply support and more through the extraction of information contained on computer maintained data records (18:11). These records, titled A through J, consolidate information about the system by tracking individual maintenance significant items (MSI.) Each one of the records or "sheets" requires certain information about each MSI and when MSI record sets are combined it forms a data base. Information from the data base, in the form of computer generated summary reports or tailored outputs, can be used to meet specific program requirements (1:30-50).

Even at the top level the scope of information LSA and LSAR attempt to group into one data base gives a feeling for

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the complexity of this undertaking. However, the working level procedures, both generic and program specific, must also be added to the process. Because of the complexity of the task it is easy to see why managing a successful program can quickly become overwhelmingly difficult.

Why is Tailoring LSA and LSAR Important?

As mentioned earlier, systems engineering is a continual and iterative activity trying to find the optimal balance between cost, schedule, performance, and supportability. LSA is the avenue through which support considerations are included and maintained in the systems engineering process. Obtaining this optimum balance in the most efficient manner should be a goal of every program office. To get the most out of the LSA process, Air Force and contractor managers must devote considerable attention to defining LSA applications in the early system or equipment planning (8:10-1).

In his book, Logistics Engineering and Management, Benjamin Blanchard conveys the importance of tailoring LSA and LSAR to program requirements:

> Through a review of the information in the LSAR data records, one can acquire some insight as to the Department of Defense's intent in terms of what should be included in a logistics program...(T)he objective is to review these data and "tailor" a program to meet the actual needs - too little or too much documentation can be costly. (4:437)

The overall LSA process must be an integral part of the ILS program and for it to be effective it must meet specific

program requirements. Tailoring both the Mil-Std-1388-1A and 2A tasks to the program's individual ILS needs is essential to avoid duplication of effort and unnecessary time delays.

In his thesis, Capt Pierce points out that the LSA process is a cyclical one. When tailoring LSA and LSAR tasks, it is important for the logistics manager to have the flexibility to travel in many directions through available information:

> He should be able to go from ILS elements and program documentation directly to tailoring the LSA tasks or, knowing the information required to make the decisions, he should be able to go from the ILS elements and program documentation to DID requirements, followed by LSAR tailoring, and finally LSA task tailoring. (22:7)

Air Force Logistics Command's Air Logistics Division (ALD) states the LSA program must be tailored to meet the acquisition phase, type of program, time and resources available and capitalize on work already completed. By incorporating these into the program the following benefits can be realized:

1.) Design freedom is increased

2.) Duplication of effort is minimized

3.) Resources are used properly

4.) Historical data and past experience can be captured (5:3-6)

Once in place, this process must then be continued through the entire life-cycle of the system to gain the complete benefits generated by LSA (1:39).

What Current Tailoring Tools Exist?

There are three main categories for today's LSA tailoring tools:

1.) the military standards (1388-1A and 2A)

2.) published guidance

3.) LSA Decision Support Systems (DSS)

Capt Paul Dunbar states in his thesis the primary tailoring tools are the military standards covering LSA and LSAR.

> (They) provide an explanation of the purpose of the different LSA tasks that can be applied and explain in general and in some detail how to tailor the LSA tasks for contracting. (15:8)

However, as Capt Dunbar points out, the military standards do not contain current staff policies, lessons learned, or any practical experience gained in the field.

ALD has issued a number of documents which attempt to help the program office tailor LSA and LSAR. In 1984 AFALC/PTA (now ALD/ERL) prepared the "Air Force Guide for Logistics Support Analysis and Logistics Support Analysis Record." This document helped define both LSA and LSAR; however, it went a step further by tying 1388-1A and 1388-2A together. In addition, it provides some examples of contractual documentation and lists where to get help if required (1:E 1-5).

Two handouts provided during the Deputy Program Manager for Logistics Course (taught by ALD) also explain staff policy towards tailoring LSA and the LSAR. "Logistics

Support Analysis Tailoring" (5:1-27) and "Logistics Support Analysis Record Mil-Std-1388-2A" (6:1-37) are very similar to the guide in that they explain LSA and LSAR respectively; however, they also provide a graphic representation of how the tasks match with the acquisition phase.

This research has revealed five main sources to use to tailor LSA and LSAR tasks today. As mentioned earlier, the military standards provide guidance for tailoring; however, they are limited in scope because they apply to all of the Department of Defense and to every phase of the acquisition cycle.

Capt Dunbar's LSA DSS incorporates information presented in Mil-Std-1388-1A, LSA expert advice and ALD Lessons Learned into an easy to use dBase III PLUS program. While designed to tailor 1A tasks, the programming structure can be followed to build a DSS for 2A requirements (15).

One of the biggest aids to tailoring LSAR tasks was found in the Department of the Air Force's AFLCP 800-17, the Air Force Logistics Support Analysis Primer. The pamphlet provides a description and graphical representation of both LSA and LSAR. It goes further by providing a detailed explanation of how the two interface. Of particular interest to this research are the LSA Task Application and Documentation Matrices contained in the Primer. These matrices define the LSAR interface with program elements, phases, and milestones. It also gives a cross reference between the DIDs, LSA output reports, and the LSA Records.

This information will form the basic structure of this programmer's LSAR DSS.

Two current tools exist to help the logistics manager tailor LSAR requirements. One is a set of procedures and checklists and the other is a computer program which serves as a DSS for selecting data elements tasks.

In 1985 the Navy published LSA implementation procedures. Contained in Naval Sea Systems Command's Logistics Support Analysis Implementation Procedures, the Navy attempted to provide "step-by-step procedures to select appropriate LSA tasks and products, prepare LSA contractual documents, review the LSA program and properly use LSA products (14:1)." The document provides a series of YES/NO questions and a series of checklists for initializing and reviewing both the LSA program and the LSAR (14:6). It provides a good source of information for building a computer based LSAR DSS; however, it does not give guidance on how to complete tasks or provide a finished product other than the YES/NO answers to the questions raised in the checklists.

Columbia Research Corporation developed "Computer Assisted Methodology for Data Element Selection" (CAMDES) for the United States Marine Corp. It is a computer based DSS which is compiled and will run on an MS DOS personal computer:

> CAMDES was designed to assist in the completion of
> the LSAR Data Selection Sheets (DD Form 1949-1,
> Parts I and II). DD Form 1949-1 provides a

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vehicle for identifying the required LSAR data
elements to be completed for a specific phase of
an acquisition effort. (21)

CAMDES is designed so the logistics manager can use a
set of lists to activate a standard data element selection.
For example, if certain LSA output reports are chosen from
the list of available reports it highlights which data
elements of the DD Form 1949-1 are required and which ones
are recommended. Since programs can have unique
requirements, CAMDES allows the logistics manager to add or
delete each data element from the recommended list it
generates as a result of the output report or DID selection
made by the logistics manager at the start of the program
sequence. The program is designed for use in USMC and USN
programs and many selections are geared towards these two
services unique DID and other data requirements. It does,
however, provide a good example of a computer based DSS for
outlining LSAR requirements.

III. Methodology

A four step approach was used to answer the investigative questions raised in chapter one and to develop the DSS for tailoring the Logistics Support Analysis Record (LSAR). The following is an explanation of the steps:

1.) Literature Review: Chapter 2 provides a review and discussion of existing information relevant to LSAR.

2.) Develop Initial DSS Computer Program: The program's structure was designed to be similar to existing DSS programs used to tailor LSA and LSAR.

3.) Identify Data Sources: During this step input sources were identified for use in building the tailoring tool.

4.) Update and Document Computer Program: Program was updated to include sources identified in step 3 and develop program documentation.

Step 1: Literature Review

Chapter two of this thesis describes the information available to help tailor MIL-STD-1388-2A to individual program requirements. The following explanation of the first step in the methodology taken in this research identifies the source data used in developing the computer based LSAR DSS.

There were six main sources of information used to develop the initial DSS:

1.) Thesis work done by Capt Paul Dunbar

2.) Thesis work done by Capt Michael Heffner

3.) USAF's LSA Primer

4.)   MIL-STD-1388-2A itself

5.)   Naval Sea Systems Command's "Logistics Support Analysis Implementation procedures

6.)   USMC's Computer Aided Maintenance Data Element Selection (CAMDES) program.

Capt Dunbar's dBASE III PLUS based computer program formed the basis for the development of the DSS. His work centered on the tailoring of MIL-STD-1388-1A tasks and provides the incentive to continue the development of a similar program for tailoring the LSAR part of the military standard.

Capt Heffner's recently developed program continued work in developing a MIL-STD-1388-1A tailoring tool (17). He also used dBASE III PLUS to build the LSA DSS and incorporated system engineering guidance into the program. Capt Heffner's program provided this researcher with a set of programming techniques and ground rules for use in building the LSAR DSS. By using a structure similar to both Capt Dunbar's and Capt Heffner's programs, the LSAR DSS would not require the logistician to learn more than one software system and provide a familiar format for tailoring the overall LSA program.

The USAF's LSA Primer contains guidance on tailoring both military standards and also provides a matrix showing the relationship between the Data Item Descriptions (DIDs) required by an USAF ILS program, the LSA output reports, and the individual LSAR records.

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Appendix E to MIL-STD-1388-2A forms the basis of the LSAR DSS. This appendix is devoted to providing suggestions and techniques which should be used to tailor a LSAR program.

The Navy's implementation procedures, while in checklist form, provide an excellent source of questions to initiate to initiate places in the DSS where guidance is required.

The Marine Corp's CAMDES program is a working DSS which provides help in selecting data elements for inclusion in the final LSAR tailoring product, the DD Form 1949-1 parts I and II. While it is not in dBASE III PLUS, it does operate on an MS DOS machine. The program is geared toward Marine acquisition in general; however, it does present a good starting point for identifying and selecting the specific card blocks or data elements of each LSAR data record.

Step 2: Development of the Initial Computer Program

Development of the computer program followed the literature review. Since earlier researchers determined dBASE III PLUS to be a favorable software package, it was used to develop the LSAR DSS. This provided a good starting point and continuity between the tailoring tools. Logistics managers would have to be familiar with only one set of operating commands and the software program can run all three DSS programs.

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The main considerations driving the development of the program were that it had to be menu driven for ease of use, provide both the descriptive and mechanical relationship between the LSAR components, and must provide hard copy and on screen outputs of tailored tasks. The program also had to be designed for use by personnel unfamiliar with the software.

The structure of the LSAR DSS was based on the relationship between logistics drivers and the LSAR data records. The term "logistics driver" as used in the DSS refers to logistics related tasks and actions which are the result of LSA tasks, program elements, and DIDs used to drive an ILS program of a system acquisition program.

Capt Heffner's DSS program structure formed the framework from which the initial LSAR DSS was built. Similar code, logic, and menus were used to make the LSAR DSS operate like existing tailoring tools.

Step 3: Identify Data Sources

The six sources identified in step one were used to provide the actual questions, guidance, and inter-relationships of the LSAR DSS. The primary source for data was MIL-STD-1388-2A. Appendix E to the military standard contains numerous tables and charts showing the relationships between the LSAR and the referenced logistics drivers. Since the information was spread over a number of

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sections of the appendix, a goal of the DSS program was to consolidate these sources into one "user friendly" format.

Step 4: Update and Document Computer Program

Once the initial program was developed a number of options were added to make the program more useful. With the actual tailoring portion of the program operational, an overview of the LSAR DSS, a synopsis of general LSAR tailoring guidance, a review and update capability, and an updated version of the output program were added to make the DSS program more useful.

Documentation of the programming and use of the program is vital to maintaining a working DSS. The code of each major subprogram contains remarks explaining each step, to make future updates or corrections possible. A user's manual is required to provide users with an easy to follow set of commands to initialize and use the LSAR DSS. A copy of the user's manual is included in Appendix A.

The DSS is designed to request input from the user on options that may or may not apply to his program. Based on user provided answers, a list of required records is developed with individual sublists documenting the logistics requirements that drove the need for the LSAR data record. The DSS is structured to allow the user to work through a set of LSA task related questions, program element related questions, logistics related DID questions, or a combination of all three. The user is provided not only with the

questions but options to review available guidance, applicable LSA output reports, and descriptions of LSAR data records. The content and operation of these options are discussed in the next chapter.

IV. Documentation and Program Operation

This chapter discusses the contents and operation of the LSAR DSS program. It addresses the data base file, the program files used in each of the five portions of the LSAR DSS program, and the users manual. The interrelationship of the program files, database file, and the operation of the program will also be detailed in this chapter.

Types of Files Used

Prior to describing the documentation of the five program sections, an explanation of the four different types of dBASE III PLUS files used in the program is required.

.DBF Files. Database (.dbf) files store information which can be retrieved, modified, selected, printed, or displayed in various formats. Each type or kind of information is stored in a unique place called a field. The collection of all the fields for a specific logistics driver is called a record. The total collection of all logistics driver records is called a data file. (16:9-10)

.DBT Files. Database memo (.dbt) files are auxiliary files to data base (.dbf) files and are used to store textual information related to individual records of the database file. (16:57)

.PRG Files Program (.prg) files are organized groups of commands which will execute these commands in order without having to enter single command lines. They are ASCII files and may be created using any word processing program capable of creating ASCII text files. (16:144)

.FRM Files Report form (.frm) files contain the information needed by the dBASE III PLUS

REPORT FORM command to prepare output
reports. (23:109)

Data Base Files

The LSAR DSS uses one master data base file, called
DRIVER.DBF, to store all logistics driver related
information which is used for uniquely tailoring LSAR
requirements to the users program requirements. Table 4-1
shows the different fields within each record of the data
base, the field's type, and the size of each field. Each
record of DRIVER.DBF is designed to contain the relationship
between the specific logistics driver and the LSAR
documentation process. This relationship shows which LSAR
data record is required for each logistics driver.

There are two types of fields used in the data base:
character and memo fields. Character fields contain
alphanumeric characters and the memo fields contain text
files stored in an auxiliary file to the DRIVER.DBF data
base file.

Within DRIVER.DBF, the field NUMBER identifies the
logistics driver actions required by MIL-STD-1388-2A. The
field SELECTED is used to show if the logistics driver is
required by the user's contract. This field is preset to
"NO" and is updated through the use of the LSAR DSS program.
The field RECORDS lists all LSAR data records which may
apply to the specific logistics driver. The COMMENTS field
is a memo type field and allows the program to list specific

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comments required to implement the logistics driver. The NUM field is simply a way of keeping the logistic driver records in a specific order in the data base. It is a number which grows sequentially from the first record to the last. It will allow for the insertion of future data files later.

Table 4-1. DRIVER.DBF File Structure

FIELD NAME	TYPE	WIDTH
NUMBER	Character	14
SELECTED	Character	6
RECORDS	Character	40
COMMENTS	Memo	--
NUM	Character	3

The field selected is used in the DSS.PRG portion of the LSAR DSS program to let the user uniquely tailor program requirements. There are three possible entries for this field: yes, no, or unsure. The "no" response is preset in the field at the start of the LSAR DSS program, and will remain as such until changed. The "yes" response is entered by the DSS.PRG program as the user identifies required logistics drivers. The "unsure" response is also entered in the same manner.

The memo fields associated with the data base contain notes which impart specific tailoring guidance for each logistics driver. The notes are taken from Appendix E, Application and Tailoring Guidance for the Logistic Support

Analysis Record, of MIL-STD-1388-2A. These notes combine

information contained in various tables to present the user

consolidated tailoring information. The memo fields can be

expanded in future updates and is limited only by the

limitation of 5000 characters placed on memo fields by dBASE

III PLUS. (23:109)

The other data base used by the LSAR DSS program is one

created by using the actual selection portion of the DSS

program. This data base is created to allow the user to

store his or her responses to the questions asked throughout

the program. This data base is named by the user and is

cloned from DRIVER.DBF. This data base also allows the user

to review and update at a later date and also stores the

choices made for future use.

Report Form Files

Report form (.frm) files are used to display and/or

print the responses to the questions asked of the user while

in the actual tailoring portion of the DSS. There are 15

different report forms used by the LSAR DSS, representin~

each of the LSAR data records. The files are named

PRINT*.FRM, with the * representing the LSAR data record

name. For example, the report form for the B1 data record

is named PRINTB1.FRM. The structure for all 15 report forms

is similar and is shown in table 4-2. The Driver column in

Table 4-2 shows the task, program or DID which may use the

data record being reported. For example, MIL-STD-470, which

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directs the maintainability program, may require the LSAR A

data record to store and retrieve information from the LSAR

data base. The Required column shows whether or not the

user has selected the logistics driver. And the Comments

column shows the specific tailoring guidance applicable to

the logistics driver. An example of the complete output

report, including all comments, is shown in Appendix I.

Table 4-2. Report Form Structure

Column	Content	Width
Driver	NUMBER	14
Required	SELECTED	6
Comments	COMMENTS	40

The column heading in Table 4.2 shows the way it will

actually look in the output report, the content is drawn

from the user's data base, and the width shows how many

spaces are allowed for the different columns across an

output report page.

Program Files

This section will explain each of the five subprograms

contained in the overall LSAR DSS program. The purpose,

files used in each subprogram, and the operations of each

will be discussed.

MAIN.PRG.

A copy of the actual program code is contained on disk number 1 of the four LSAR DSS program disks.

Purpose. The purpose of the main program file, MAIN.PRG, is to initiate the LSAR DSS program and present a method to access one of the five main sections of the overall program. This program will also allow the user to quit or exit the program.

This program file sets dBASE III PLUS controlling functions to the operating settings required by the LSAR DSS. It sets screen displays and bells off that are normally displayed when dBASE III PLUS is in use, this is done so that only the programmed screens of the DSS will appear to the user. It also sets the dBASE "confirm" mode on so that all responses by the user to answer questions or pick various menu options must be followed by entering a <Return> to confirm that the correct answer was given.

Files. MAIN.PRG is the only file used to initiate the LSAR DSS program. It is a stand alone program that includes the five separate programs of the LSAR DSS. Figure 4-1 shows the hierarchical relationship of this program file to the five program files that are accessed through MAIN.PRG.

```
                    ┌──────────────┐
                    │   MAIN.PRG   │
                    └──────────────┘
                           │
        ┌───────────┬──────┼──────┬───────────┐
  ┌───────────┐ ┌───────────┐ ┌───────────┐ ┌───────────┐
  │ OVER.PRG  │ │ GUIDE.PRG │ │ REVUP.PRG │ │ PRINT.PRG │
  └───────────┘ └───────────┘ └───────────┘ └───────────┘
                      ┌───────────┐
                      │  DSS.PRG  │
                      └───────────┘
```
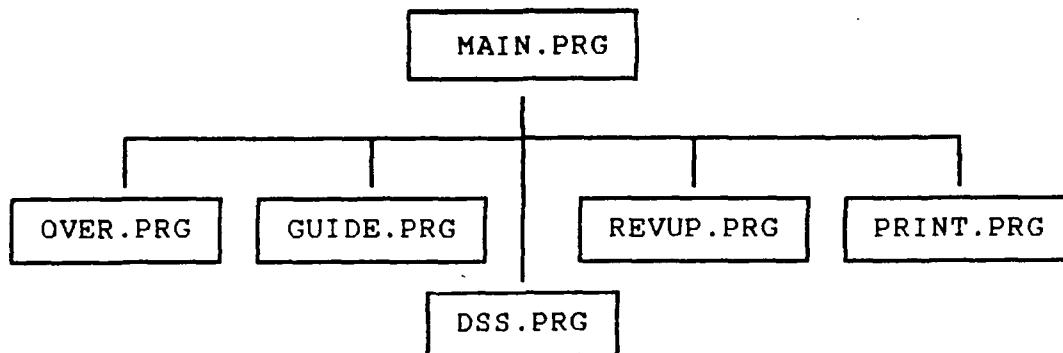
Figure 4-1. Subprogram Relationship to MENU.PRG

Operation. To execute this program file the user must first have dBASE III PLUS up and running and be at the dot prompt. The specific steps required to reach this point are included in the LSAR DSS User's Manual which is included as Appendix A if the user is unfamiliar with dBASE III PLUS. Once these conditions are met the user must type < DO MAIN > at the dot prompt to execute MAIN.PRG. Once MAIN.PRG is initiated it sets the dBASE operating environment by invoking SET TALK OFF (to turn off status messages screens), SET BELL OFF (to turn off confirmation bell), SET SCOREBOARD OFF (to turn error messages off), SET STATUS OFF (to turn status screen off), SET CONFIRM ON (to set confirmation of entry on), and SET PATH TO C:\DBASE (to set the required directory path).

The user will then see the title page and a few introductory screens prior to the main LSAR DSS Menu appearing. At this point the user is given the choice of five subprograms to start with or one to exit the program.

The menu in Figure 4-2 represents the main LSAR DSS menu.

```
┌──────────────────┤ LSAR DSS MAIN MENU ├──────────────────┐
│                                                           │
│                                                           │
│     [A]   DECISION SUPPORT SYSTEM OVERVIEW                │
│                                                           │
│     [B]   REVIEW LSAR TAILORING GUIDANCE                  │
│                                                           │
│     [C]   LSAR TAILORING DECISION SUPPORT SYSTEM          │
│                                                           │
│     [D]   LSAR SELECTION REVIEW AND UPDATE                │
│                                                           │
│     [E]   PRINT PREVIOUSLY SELECTED CHOICES               │
│                                                           │
│     [X]   EXIT PROGRAM                                    │
│                                                           │
└───────────────────────────────────────────────────────────┘
```

SELECT TASK [A-E, X to quit] AND PRESS RETURN ?

Figure 4-2. LSAR DSS MAIN MENU Display

OVER.PRG.

A copy of the actual program code is contained on disk number 1 of the four LSAR DSS program disks.

Purpose. The purpose of OVER.PRG is to provide the user with an overview of the LSAR DSS program. It is a series of short statements outlining four areas: 1) The DSS program, 2) LSA documentation, 3) Logistics Support Analysis Record, and 4) Interrelationship between LSAR and the logistics drivers identified in the LSAR DSS.

Files. OVER.PRG is a single file that contains all the text and dBASE commands needed to make it run. The

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information presented in this program is for the user's information and is not included in the output reports. The file was built using a word processing package capable of creating ASCII files. Both the dBASE commands and the supporting text are included in the program file.

Operation. The user can access OVER.PRG through the LSAR DSS Main Menu by selecting option [A]. The program then presents a number of information or text screens. At the bottom of each screen the user is asked if he or she wants to continue, "Y" or "N" are the only two answers the program will accept until the last OVER.PRG screen appears. At this point the user is required to enter a "C" to continue back to LSAR DSS Main Menu.

GUIDE.PRG.

A copy of the actual program code is contained on disk number 1 of the four LSAR DSS program disks.

Purpose. The purpose of the GUIDE.PRG program is to give the user an overview of the LSAR tailoring guidance contained in MIL-STD-1388-2A and other applicable sources. The program provides a synopsis of the military standard's Appendix E, which covers across the services tailoring of LSAR, and the LSAR tailoring guidance presented in the Air Force's LSA Primer. The program also includes a section on tailoring the LSAR by life cycle phase. It is important to understand the impacts that program phase will have on the content of the LSAR; however, there is limited specific

tailoring guidance available. The GUIDE.PRG program does provide general guidance for tailoring LSAR by phase. This is present in a subprogram, access to the subprogram is through the Life Cycle Phase Menu that appears at the end of the general LSAR tailoring guidance. The contents of the menu are shown in Figure 4-3.

Files. GUIDE.PRG consists of the text and dBASE commands to present the tailoring guidance outlined in MIL-STD-1388-2A and the LSA Primer. It also uses the following program files to show LSAR life cycle phase tailoring guidance: CE.PRG, DVAL.PRG, FSD.PRG, and PROD.PRG.

```
What Phase Would You Like to Review?

[A]   CONCEPT EXPLORATION

[B]   DEMONSTRATION/VALIDATION

[C]   FULL SCALE ENGINEERING DEVELOPMENT
      LOW RATE INITIAL PRODUCTION

[D]   FULL RATE PRODUCTION/DEPLOYMENT

[E]   EXIT TO MAIN MENU
```

SELECT TASK [A-D, E to quit] AND PRESS RETURN ?

Figure 4-3. Phase Menu Display

Operation. Once the user enters the GUIDE.PRG program the first of seven text screens will appear for review. The user may continue through all seven screens or exit at any time. After completion of the text portion,

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the life cycle phase menu will allow the user to review tailoring guidance for any or all program phases. After each phase program (CE.PRG - PROD.PRG) the user is returned to the phase menu until the user exits and is returned to the LSAR DSS main menu.

DSS.PRG.

A copy of the actual program code is contained on disk number 1 of the four LSAR DSS program disks.

Purpose. The purpose of the DSS.PRG program is to allow the user to bridge the gap between a tailored LSA MIL-STD-1388-1A program and completion of the final LSAR tailoring product, the DD Form 1949-1 parts I and II. This program file implements the LSAR tailoring section of the overall DSS and allows the user to select the individual question responses for his or her program. The questions asked by DSS.PRG are all related to logistics drivers which may be required to complete an integrated logistics program for an acquisition program. The program includes on-line help to give descriptions of LSAR data records and LSA output reports and, when applicable, show guidance in tailoring the LSAR to a specific driver. The program also allows the user to name a "cloned" data base for individual future use and later updates.

Files. DSS.PRG is the largest subprogram of LSAR DSS and calls on many other smaller subprograms to provide the user with the required information to make tailoring

judgements. The question programs (Q****.PRG type files) contain the LSAR tailoring questions. There are three types of question programs:

1.) LSAR related LSA tasks

2.) program elements which interface with LSAR, and

3.) logistics related Data Item Descriptions (DIDs). The LSA task questions are shown in Appendix B of this document. The program element questions are given in Appendix C, and the DID question programs are listed in Appendix D.

The guidance programs (G****.PRG type files) contain the application guidance for selected LSAR related logistics drivers. The guidance programs for the six logistics program elements cited in the LSAR DSS are shown in Appendix E to this document. The DID guidance programs are also listed in Appendix F.

DSS.PRG can also provide the user with on-line discriptions of the fifteen LSAR data records (*RECD.PRG type files) and in applicable cases LSA output reports. These programs are listed in Appendix G, LSAR Data Record Description Programs and Appendix H, LSA Report Description Programs.

There is one menu subprogram within DSS.PRG which is called on whenever a tailoring question is asked of the user. MENU.PRG is called by DSS.PRG when each question is asked. It appears at the bottom of each question screen and lists the choices the user can execute. The menu is shown in

Figure 4-3. The choices available to the user

are:

    1.) YES: The logistics driver applies and will be
shown as required in the output report.

    2.) NO: The logistics driver is not applicable.

    3.) UNSURE: This response means the user in unsure of
the driver's applicability. This is also documented in the
output report.

    4.) RECORDS: Will present a menu from which selected
LSAR data records can be reviewed.

    5.) RE(P)ORTS: Will present a menu from which
applicable LSA output reports can be reviewed.

    6.) GUIDANCE: This response will provide on-line
guidance (when applicable) for tailoring the logistics
driver referred to on the screen.

The actual tailoring portion of DSS.PRG is broken into

three main sections; LSAR related tasks, program elements

interfacing LSAR, and logistics related DIDs. The user's

responses to questions asked in these three sub-routines

will form the basis of the output report.

```
┌─────────────────────────────────────────────────────────────┐
│                                                               │
│   [Y]  YES          [N]  NO          [U]  UNSURE              │
│   [R]  RECORDS      [P]  REPORTS     [G]  GUIDANCE           │
│   [Q]  QUIT         ENTER CHOICE AND PRESS RETURN  ?          │
│                                                               │
└─────────────────────────────────────────────────────────────┘
```

Figure 4-4. Example of MENU.PRG

Operation. DSS.PRG and the auxiliary files the

user wants to review are accessed through program menus.

The LSAR DSS main menu allows the user to begin DSS.PRG.

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After a few introductory screens, a menu will prompt the user to select starting portion of the tailoring program. The menu is shown in Figure 4-4. The three different sections cover the logistics drivers and guide the user through the tailoring steps outlined in MIL-STD-1388-2A.

```
WHICH SECTION DO YOU WANT TO REVIEW ?

[A]   LSAR DEPENDENT TASKS

[B]   LSAR INTERFACING PROGRAM ELEMENTS

[C]   LOGISTICS RELATED DATA ITEM DESCRIPTIONS


[Q]   TO EXIT AND RETURN TO THE MAIN MENU
```

ENTER CHOICE [A-C, Q to exit] ? AND PRESS ENTER

Figure 4-5.   DSS.PRG Major Section Menu

Once the user enters a section the DSS.PRG program will present a series of questions regarding the applicability of logistics drivers. The responses to the questions are then recorded for use in the output report. The responses are also recorded in the data base and will be reflected, at the bottom of the screen, whenever the user elects to review the program. Once a major section of the tailoring program is completed the menu shown in Figure 4-4

will reappear. From this point, the user can proceed to another section or elect to exit to the main LSAR DSS menu.

REVUP.PRG.

A copy of the actual program code is contained on disk number 1 of the four LSAR DSS program disks.

Purpose. The purpose of the REVUP.PRG program is to allow the user to review and/or update a previous session's work. The program is identical to the DSS.PRG except that the user is not required to build a new data base to store responses. An existing data base, complete with the user's tailored responses, is used during this program.

Files. As mentioned above, REVUP.PRG is identical to DSS.PRG and uses all applicable files and programs except those relating to the building of a "cloned" data base. With this program the user can access any previous session's work by simply calling up the existing data base when asked which program is to be reviewed or updated.

Operation. REVUP.PRG is an option on the main LSAR DSS menu. Once this option is selected, the user must choose which section is to be reviewed. The menu portrayed is the same one from DSS.PRG and is shown in Figure 4-4. The user is then asked which data base file is to be used. An option to list all existing data base files exists in order to give the user a choice to pick from. Once

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into the program the operation is exactly the same as the initial tailoring program. The previous responses to the questions are presented at the bottom of each question screen.

PRINT.PRG.

A copy of the actual program code is contained on disk number 1 of the four LSAR DSS program disks.

Purpose. The purpose of the PRINT.PRG program is to provide a usable synopsis of the user's tailoring effort. The output can go to either the computer screen or to a printer. The output report is broken into fifteen separate sections. Each represents one of the LSAR data records and groups all logistics drivers applicable to that record. This enables the user to have all drivers listed in one source to tailor the DD Form 1949-1. This format was designed to both minimize duplication of effort and show the user the interfaces between different drivers. An example of the printed output is shown in Appendix I.

Files. There are fifteen form files, PRINTA.FRM through PRINTJ.FRM, which each contain the format and content information required to produce a screen or hard copy report.

Operation. PRINT.PRG is an option on the main LSAR DSS menu. Initiating the print program will present the user with three options. These options are presented in Figure 4-5. The program will allow the user to list

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all logistics drivers, only applicable drivers, or only the
drivers with an unsure status. At the completion of the
PRINT.PRG program the print menu will reappear, allowing
the user to either select another output option or return
to the main LSAR DSS menu.

```
┌─────────────────────────────────────────────────────────────┐
│                                                               │
│                      PRINTING OPTIONS                         │
│                                                               │
│      [A]   List ALL drivers for each LSAR record and          │
│               their current status                           │
│                                                               │
│      [B]   List only SELECTED drivers for each record         │
│                                                               │
│      [C]   List drivers for each LSAR record with an          │
│               UNSURE status                                   │
│                                                               │
│      [Q]   QUIT and return to main menu                       │
│                                                               │
│                                                               │
│      ENTER YOUR CHOICE AND PRESS RETURN: ?                    │
│                                                               │
└─────────────────────────────────────────────────────────────┘
```

Figure 4-6.   PRINT.PRG menu

Supporting Documentation

A users manual has been written for the LSAR DSS
program.   The manual has seven main sections:

1.)   Purpose of the LSAR DSS

2.)   System operation

3.)   System configuration

4.)   System organization

5.)   Performance

6.) LSAR DSS startup and operation

7.) Updates.

A copy of the user's manual is included in Appendix A. The purpose of the manual is to provide information regarding the DSS's hardware requirements, installation and setup, and use.

The system operation section describes the five main sections of the LSAR DSS. Included is a brief summary of what each of the sections can do for the user and how those tasks are accomplished.

The system configuration section states the DSS has been programmed entirely in dBASE III PLUS and requires this software package to be resident on the user's computer. The DSS also requires the user to have as a minimum an IBM XT or AT compatible computer with at least 256K Random Access Memory (RAM), and a hard disk with 2 megabytes storage space on the hard drive.

The system organization section describes the program files, data base files, form files, and text files which comprise the DSS. The performance section provides information on operating procedures while in the DSS. DSS installation procedures are outlined in the next section of the user's manual. Following these steps will lead the user up to the point just prior to starting the DSS. The sixth section shows the user how the start the DSS once dBASE III PLUS is up and running. It also gives the user an important warning concerning the naming of data base files while in

the DSS. The user must not include the .DBF extension on any name used for identifying data base files within the LSAR DSS. The last section identifies ALD/ERL as the point of contact for updates or recommendations.

V. Findings and Recommendations

This chapter covers three areas. First it will discuss the researcher's findings from this thesis effort. Next it will look at recommendations for enhancing the LSAR DSS program. The section will conclude with some recommendations for further research.

Researcher's Findings

The LSAR DSS program is structured as originally intended and operates as originally planned, however, the size of the program was larger than originally planned. This is due in part to the researcher's limited programming experience and an underestimation of the work involved in building a program like the LSAR DSS. The size requires users to have a hard disk with at least 2 megabytes available to run the program. But, the program is user friendly and the individual does not need an extensive background in computers to load and operate this system on a capable personal computer.

While the program is very similar to existing LSA tailoring tools, it appears to be the first to attempt to bridge the gap between a tailored MIL-STD-1388-1A program and the actual selection of the individual blocks of the fifteen LSAR data records to complete the DD Form 1949-1. By combining all tasks which drive a data record requirement into one report, the program allows the user to see the

interrelationships that exist between different program elements. Hopefully this will aid in developing a program that minimizes duplication of effort and capitalizes on shared data.

The program is easily expandable to include more logistics drivers and guidance as it becomes available. The program is also easy to update because most of the specific information is broken out in short stand alone programs. These programs can be modified without going into or affecting the larger program files.

Recommended Improvements to the LSAR DSS Program

The researcher believes the following improvements to the LSAR DSS are worthwhile:

1.) Extend the program to LSA and LSAR experts for comments and recommendations. Experts familiar with the application of the LSA process could add a great deal to the usefulness of the program.

2.) The number of logistics drivers should be expanded to include more LSA tasks and program elements.

3.) Update the program with current LSAR products as the become available. For example, as the SERD process interrelationship with the LSAR becomes better defined, updating the E, E1, and E2 data record descriptions and the associated output products would make the program reflect what currently exists.

4.) Verify that the questions, guidance, and descriptive programs are understandable to both inexperienced and experienced logisticians. The programs which are not understood should be updated.

5.) Update the output product to include the name of the logistics driver. The output report is currently designed to be printed to 8 1/2 inch wide paper and does not allow room for both the driver's name and comments at the same time.

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6.) Compile the program so the dBASE III PLUS software program is not required to run LSAR DSS.

Recommendations for Further Research

In addition to the above recommendations, there are other areas within the overall LSA process that warrant further research. There seems to be little data available relating to the costs of running an LSA program. While the LSA process attempts to integrate all of the ILS elements into a single data base, it makes it difficult to track where program and LSA maintenance costs separate. Contractor's track LSA costs differently and obtaining an expected or planning cost is almost impossible. A consolidated data base seems to be required to build a better tracking system for use by future LSA programs.

LSA and LSAR application training needs to continue not only in the program offices but in the field. Users need to be aware of the LSA products, such as first-cut technical orders from the D and D1 records, to take advantage of the benefits available from LSA. The LSA process also needs to be updated to reflect current user needs. Modifying the LSA-070 report to help speed up the SERD process is an excellent step towards this end.

A method to track LSA and LSAR schedule performance would be beneficial to the program office. It is difficult to determine percent complete when you are dealing with a system that is built up from the identification of maintenance significant items. This is evident during the

design phase of a program.

The logistics support analysis process can be monumental for both the contractor and the government. It is important that requirements are judiciously levied and that products are carefully tracked. Integration of the LSA process needs to take place at all levels, from the representation of logistics and maintainability in approving the final design to the automated reports used for provisioning, there must be an coordinated effort on the part of the government and the contractor to make the LSA process work.

Appendix A: Under's Manual

LOGISTICS SUPPORT ANALYSIS RECORD (LSAR)
DECISION SUPPORT SYSTEM
VERSION 1.0, 3 SEPT 1989
USER'S MANUAL

1. PURPOSE OF THE LSAR DECISION SUPPORT SYSTEM (DSS).

   a. The purpose of this DSS is to aid working
logisticians in developing and tailoring MIL-STD-1388-2A,
Logistic Support Analysis Record, requirements to their
individual program needs and to integrate the LSA
documentation effort into the overall system acquisition
effort.

   b. The purpose of this manual is to provide you
information regarding the DSS's hardware requirements,
installation and setup, and use.

2. SYSTEM OPERATION.

   a. There are five main sections to this DSS. They are
all accessible from a main DSS menu that is generated when
the DSS is run. The five main sections are as follows.

      (1) A section that provides a general overview of
the DSS itself, LSA documentation, LSAR, and inter-
relationship between logistics drivers and the LSAR DSS.

      (2) A section that allows you to review the LSAR
tailoring guidance published in MIL-STD-1388-2A. It also
includes the Air Force's LSA Primer guidance for tailoring
LSAR. A series of menus allow you to work through this
section at your leisure, you can exit from any screen in
this section.

      (3) A section that generates the LSAR tailoring
routine. This section asks you for a database name to
generate an individual database file for your program. A
directory option is available to help avoid overwriting an
existing database file. This section then leads you through
a series of tailoring questions and allows you to
answer yes, no, or be unsure of each LSAR related question.
The tailoring questions have been designed to provoke
thought on each logistics driver's applicability to your
acquisition program. Additionally, you may access the
applicable guidance, LSAR data record descriptions, and LSA
output report descriptions for each logistics driver at each

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tailoring question screen to receive additional information prior to task selection. This section generates a record of your choices and will print them out when asked to report your program under the print section of the program. However, if you are unable to finish this section in one sitting and must quit the DSS, your work is not lost. All work is saved on the database file named by you earlier in this section. The next section of the DSS allows you to review and update your task selections.

(4) A section that allows you to review, update, or complete the LSAR tailoring initiated in the DSS selection section is available. The section allows you to obtain a directory of all program database files, and enter the name of the database file you would like to update. This task provides the same tailoring questions, additional guidance and selection options as the task selection section. Additionally, messages are generated for each question stating whether the logistics driver has been previously selected, not selected, or marked unsure. As in the DSS selection section your work is not lost when you quit, but is saved on the database file you named earlier in this section.

(5) This section allows you to obtain either a screen listing or printed copy of the LSAR DSS output reports. The output reports are broken out by LSAR data record and list all related logistics drivers, whether or not they were selected (or unsure) and gives some tailoring notes. The section allows you to obtain a directory of all program database files, and enter the name of the database file you would like to review. You may obtain either a screen list or printed copy of: (a) all drivers and their status; (b) only selected drivers; or, (c) only logistics drivers you are unsure of.

3. SYSTEM CONFIGURATION.

a. The DSS has been programmed entirely in dBase III PLUS and requires dBase III PLUS to be resident on your computer in order to run.

b. The DSS requires the user to have at least the following hardware and software.

(1) IBM XT or AT compatible computer with at least 256K or Random Access Memory (RAM), a hard disk drive, and a floppy disk drive. The computer should have at least 2 megabytes of disk storage space on hard drive to be able to adequately hold a copy of dBase III PLUS and this DSS.

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(2) The computer must have installed MS-DOS 3.2 or higher.

(3) The computer must also have installed dBase III PLUS. dBase III PLUS should be installed on the computer's hard drive and preferably in a separate directory (named DBASE).

4. SYSTEM ORGANIZATION.

a. There are a number of program files, database files, form files, and text files which comprise this DSS. Their purpose, and function will be described briefly here.

(1) Program Files. These are the DSS files with a ".PRG" extension. They are the heart of the DSS and contain all of the commands and operations required to implement the DSS. They have been name logically as follows.

(a) MAIN.PRG. This program file initializes the DSS's operating environment, generates the main DSS menu and allows you to access the various sections of the DSS.

(b) OVER.PRG. This program file contains the DSS general overview and use section.

(c) GUIDE.PRG. This program file implements the section of the DSS that allows you to review the LSAR tailoring guidance published in MIL-STD-1388-2A and related sources such as the LSA Primer.

(d) DSS.PRG. This program file implements the LSAR tailoring section of the DSS and allows the user to select the individual question responses for his or her program.

(d) REVUP.PRG. This program file allows the user to review and update his LSAR tailoring selections from a previous session using the DSS.PRG section of the overall LSAR DSS program.

(e) PRINT.PRG. This program file allows the user to obtain either a printed copy or screen listing of the LSAR data records and related logistics drivers, and their status for his or her program.

(g) Q****.PRG Type Files. These program files contain the LSAR tailoring questions. These programs are called up by the DSS.PRG and REVUP.PRG programs.

(h) G*****.PRG Type Files. These program

files contain the Application Guidance for each LSAR logistics driver. These files are accessed by DSS and REVUP program files.

        (i)   *RECD.PRG Type Files. These program files contain the descriptions of each of the 15 LSAR data records. These files are accessed by DSS and REVUP program files.

        (j)   LSA***.PRG Type Files. These program files contain descriptions of all LSA output reports. These files are accessed by DSS and REVUP program files.

      (2)   Database files. There is only one database file, DRIVER.DBF. It contains the master copy of all the LSAR related logistics drivers referenced by the LSAR DSS, and their status.

      (3) Form files. There are fifteen form files, one for each of the LSAR data records. PRINT**.FRM, each file contains the format and content information required to print hard copies of the LSA task selection and status. They are called by PRINT.PRG

5. PERFORMANCE.

    a.   The DSS operates entirely through the use of menu screens to accept user input to access the various options available and perform required operations. The DSS accepts user input in either all upper or lower case, or a combination thereof. The DSS requires you to press the <enter> key after all input entries (except at "PRESS ANY KEY TO CONTINUE" statements). If you make a mistake entering input simply retype the correct entry. DO NOT ATTEMPT TO USE THE BACKSPACE KEY.

CAUTION: Be extremely careful when entering program names. Be sure **NOT** to include the ".DBF" extension. The .DBF extension might cause the DSS to "crash."

6. DSS INSTALLATION PROCEDURES.

    a.   Both dBase III PLUS and this DSS will be installed on your hard drive. Additionally, MS-DOS 3.2 or higher is required to run this system.

    b.   Follow the following instructions to install DBASE III Plus and this DSS. Note that small case letters indicate instructions, upper case letters indicate what to type, and brackets <> indicate a key on the computer's keypad to press.

(a) turn on and boot up your computer. Get to the MS- DOS dot prompt at the C: (hard disk) drive. Then perform the following.

Step 1:   type MD DBASE <return>

Step 2:   type CD DBASE <return>

Note: Follow the dBase III PLUS installation instructions to load and install dBase III PLUS on this directory. Copy the MORE.COM MS-DOS command file to this directory. Also change the CONFIG.SYS file on your MS-DOS to include the following:

                 BUFFERS=25
                 FILES=25

(This will allow dBASE III PLUS to open sufficient numbers of files to run the DSS.)

Step 3:   type MD LSAR <return>

Step 4:   type CD LSAR <return>

Step 5:   copy each of the LSAR DSS Disks (#1,#2,#3, and #4) to this directory by placing the appropriate disk in drive A:

                 COPY A:*.* C:\DBASE\LSAR <return>

This ends the installation procedure.

7. LSAR DSS STARTUP AND OPERATION.

    a. After completing the installation procedures above, the startup of the LSAR DSS is quite simple. The following three commands will bring dBASE III PLUS up and set up the correct directory and path required to access the DSS:

                 CD C:\DBASE\LSAR
                 PATH=C:\DBASE
                 DBASE

    b. Once DBASE is running, use escape to leave the assist menu and go to the dot prompt. Once at the dot prompt, to begin LSAR DSS simply type DO MAIN. The following is a list of commands to accomplish this:

                 type <return>

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```
type <esc>          (Note: this will get you to the
                     dot prompt)

type DO MAIN <return>  (Note: you must be at the
                        dot prompt for this to work)
```

        c . OPERATION. Congratulations! you have entered the
LSAR DSS, simply follow the instructions on the menu's
generated to use the program.

        (1)   The LSAR DSS accepts user input in either
all upper or lower case, or a combination thereof. The
program requires you to press the <enter> key after all
input entries (except at "PRESS ANY KEY TO CONTINUE"
statements). If you make a mistake entering input simply
retype the correct entry. DO NOT ATTEMPT TO USE THE
BACKSPACE KEY. Entering a selection not available on the
menu simply causes the menu to be regenerated until an
available option is requested.

CAUTION: Be extremely careful when entering program names.
Be sure **NOT** to include the ".DBF" extension. Doing so may
cause the LSAR DSS to "crash."

HINT: If you want to store all of the program database
files on a floppy disk simply type "A:" in front of the
program name.

        (2)   Once you exit the DSS you will return to
the dBase III PLUS dot prompt. To quit dBase III PLUS type
QUIT <return> at the dot prompt. You will leave dBase III
PLUS and be in the C:\DBASE\LSAR subdirectory. Typing CD \
<return> will return you to the main directory on the C:
(hard drive).

8. UPDATES.

If you have any updates or recommendations to this DSS
please send your comments to: ALD/ERL, Wright-Patterson AFB
OH 45333 (AV 785-3754).

Appendix B: LSAR Related Task Question Programs

The purpose of this appendix is to show all the programs used by the LSAR DSS to ask the user if specific LSA tasks are required on their contract. These programs are accessible through the LSAR tailoring DSS option of the main program menu.

```
****************
*  Q20522.PRG  *
****************
```

```
* PROGRAM: Q20522.PRG
* PROGRAMMER: Capt Michael A. McGovern, AFIT/LSG (GAL-89S)
* DATE: 24 AUG 89

@1,1
TEXT
                LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 205, Supportability and Supportability Related
Design Factors, is the following subtask required by your
contract?

     205.2.2 Supportability Objectives and Associated Risks

If so, LSAR data records A and B should be reviewed for
inclusion in DD Form 1949-1.

ENDTEXT

LOCATE FOR NUMBER='TASK 205.2.2'
IF SELECTED="NO"
    @16,10 SAY "THIS TASK HAS NOT BEEN PREVIOUSLY SELECTED."
ENDIF
IF SELECTED="YES"
    @16,10 SAY "THIS TASK HAS BEEN PREVIOUSLY SELECTED."
ENDIF
IF SELECTED="UNSURE"
    @16,10 SAY "YOU ARE UNSURE OF THIS TASK's APPLICABILITY."
ENDIF

RETURN
```

Note: The first 5 lines and the last 12 lines of the program above are common to all of the programs in this appendix and are omitted on the following pages.

```
****************
*  Q20523.PRG  *
****************
```

TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 205, Supportability and Supportability Related
Design Factors, is the following subtask required by your
contract?

    205.2.3 Specification Requirements

If so, LSAR data records A and B should be reviewed for
inclusion in DD Form 1949-1.

ENDTEXT

```
****************
*  Q20525.PRG  *
****************
```

TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 205, Supportability and Supportability Related
Design Factors, is the following subtask required by your
contract?

    205.2.5 Supportability Goals and Thresholds

If so, LSAR data records A and B should be reviewed for
inclusion in DD Form 1949-1.

ENDTEXT

```
****************
*  Q301241.PRG  *
****************
```

TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 301, Functional Requirements Identification,
is the following subtask required by your contract?

    301.2.4.1

If so, the following LSAR data records should be reviewed: B,
B1, B2, C, D, and D1. Each record should be reviewed and
compared against program requirements prior to completion of
DD Form 1949-1.

ENDTEXT

```
****************
*  Q301242.PRG  *
****************
```

TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 301, Functional Requirements Identification, is the following subtask required by your contract?

301.2.4.2

If so, the following LSAR data records should be reviewed: B, B1, B2, C, D, and D1. Each record should be reviewed and compared against program requirements prior to completion of DD Form 1949-1.

ENDTEXT

```
****************
*  Q301243.PRG  *
****************
```

TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 301, Functional Requirements Identification, is the following subtask required by your contract?

301.2.4.3

If so, the following LSAR data records should be reviewed: B, C, D, and D1. Each record should be reviewed and compared against program requirements prior to completion of DD Form 1949-1.

ENDTEXT

```
****************
*  Q30125.PRG  *
****************
```

TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 301, Functional Requirements Identification, is the following subtask required by your contract?

301.2.5 Design Alternatives

If so, then the following LSAR data records should be reviewed: B, C, D, D1. Each record should be reviewed and compared against program requirements prior to completion of the DD Form 1949-1.

ENDTEXT

```
****************
*  Q40121.PRG  *
****************
```

TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 401, Task Analysis, is the following subtask required by your contract?

    401.2.1 Task Analysis

If so, the C, D, and D1 LSAR data records should be reviewed and compared against program requirements prior to completion of the DD Form 1949-1.

ENDTEXT

```
****************
*  Q40122.PRG  *
****************
```

TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 401, Task Analysis, is the following subtask required by your contract?

    401.2.2 Analysis Documentation

If so, the C, D, and D1 LSAR data records should be reviewed and compared against program requirements prior to completion of the DD Form 1949-1.

ENDTEXT

```
****************
*  Q40123.PRG  *
****************
```

TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 401, Task Analysis, is the following subtask required by your contract?

    401.2.3 New/Critical Support Resources

If so, LSAR data records E, E1, E2, F, G, and J should be reviewed and compared to program requirements prior to completion of the DD Form 1949-1.

ENDTEXT

```
****************
*  Q40124.PRG  *
****************
```
TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 401, Task Analysis, is the following subtask
required by your contract?

    401.2.4 Training Requirements and Recommendations

If so, the following LSAR data records, D1 and G are
applicable and should be reviewed against program
requirements prior to completion of the DD Form 1949-1.

ENDTEXT

```
****************
*  Q40125.PRG  *
****************
```
TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 401, Task Analysis, is the following subtask
required by your contract?

    401.2.5 Design Improvements

If so, the following LSAR data records, D1 and G are
applicable and should be reviewed against program
requirements prior to completion of the DD Form 1949-1.

ENDTEXT

```
****************
*  Q40127.PRG  *
****************
```
TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 401, Task Analysis, is the following subtask
required by your contract?

    401.2.7 Transportability Analysis

If so, the LSAR J data record should be reviewed against
program requirements prior to completion of the DD Form
1949-1.

ENDTEXT

```
****************
*  Q40128.PRG  *
****************
```

TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 401, Task Analysis, is the following subtask required by your contract?

    401.2.8   Provisioning Requirements

If so, the H and H1 LSAR data records should be reviewed against program requirements prior to completion of the DD Form 1949-1.

ENDTEXT

```
****************
*  Q40129.PRG  *
****************
```

TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 401, Task Analysis, is the following subtask required by your contract?

    401.2.9   Validation

If so, the following LSAR data records should be reviewed: B, C, D, D1, E, E1, and E2. These records should be compared to program requirements prior to completion of the DD Form 1949-1.

ENDTEXT

```
****************
*  Q401210.PRG  *
****************
```

TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 401, Task Analysis, is the following subtask required by your contract?

    401.2.10   ILS Output Products

If so, the following LSAR data records should be reviewed: B, C, D, D1, E, E1, and E2. These records should be compared to program requirements prior to completion of the DD Form 1949-1.

ENDTEXT

```
*****************
*  Q401211.PRG  *
*****************
```

@1,1
TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 401, Task Analysis, is the following subtask
required by your contract?

    401.2.11   LSAR Updates

If so, the following LSAR data records should be reviewed: B,
C, D, D1, E, E1, and E2. These records should be compared to
program requirements prior to completion of the DD Form
1949-1.

ENDTEXT

```
*****************
*  Q50123.PRG  *
*****************
```

@1,1
TEXT

LSAR DEPENDENT TASKS/SUBTASKS

Under LSA Task 501, Supportability Test, Evaluation, and
Verification, is the following subtask required by your
contract?

    501.2.3   Updates and Corrective Actions

If so, all of the following LSAR data records, B, C, D, D1,
E, E1, E2, F, G, H, H1, J may apply and should be reviewed
against program requirements prior to completion of the DD
Form 1949-1.

ENDTEXT

Appendix C: <u>Program Element Question Programs</u>

This appendix shows the six programs used to ask the user if certain logistics related elements, guided by specific military standards, are required or the user's program. These program elements interface heavily with LSAR. Data stored in any one record can apply to more than one program. These questions are part of the LSAR tailoring DSS option of the main program menu.

```
***************
*   QMS470.PRG   *
***************
```

```
* PROGRAM: QMS470.PRG
* PROGRAMMER: Capt Mike McGovern, AFIT/LSA (GAL-89S)
* 27 AUG 1989

CLEAR
TEXT
                 LSAR INTERFACING PROGRAM ELEMENTS

Does your contract require a maintainability program which is
directed by MIL-STD-470, Maintainability Program Requirement
(for System and Equipment?

ENDTEXT

LOCATE FOR NUMBER='MIL-STD-470'
IF SELECTED="NO"
    @16,10 SAY "THIS MIL-STD HAS NOT BEEN PREVIOUSLY
    SELECTED."
ENDIF
IF SELECTED="YES"
    @16,10 SAY "THIS MIL-STD HAS BEEN PREVIOUSLY SELECTED."
ENDIF
IF SELECTED="UNSURE"
    @16,10 SAY "YOU ARE UNSURE OF THIS MIL-STD's
    APPLICABILITY."
ENDIF

RETURN
```

Note: The first 3 lines and the last 12 lines of the program above are common to all of the programs in this appendix and are omitted on the following pages.

```
****************
*  QMS785.PRG  *
****************
```

CLEAR
TEXT

                    LSAR INTERFACING PROGRAM ELEMENTS

Does your contract reouire a reliability program which is
directed by MIL-STD-785, Reliability Program for Systems and
Equipment, Development, and Production?

ENDTEXT


```
****************
*  QMS1629.PRG  *
****************
```

CLEAR
TEXT

                    LSAR INTERFACING PROGRAM ELEMENTS

Does your contract require a failure modes, effects and
criticality analysis program which is directed by
MIL-STD-1629, Procedures for Performing a Failure Modes,
Effects and Criticality Analysis?

ENDTEXT


```
****************
*  QMS2073.PRG  *
****************
```

CLEAR
TEXT

                    LSAR INTERFACING PROGRAM ELEMENTS

Does your contract require a packaging program which is
directed by MIL-STD-2073?

ENDTEXT

```
****************
*  QMS1561.PRG  *
****************
```

CLEAR
TEXT

LSAR INTERFACING PROGRAM ELEMENTS

Does your contract require a provisioning program which is
directed by MIL-STD-1561, Provisioning Procedures?

ENDTEXT

```
****************
*  QMS882.PRG  *
****************
```

CLEAR
TEXT

LSAR INTERFACING PROGRAM ELEMENTS

Does your contract require a safety program which is directed
by MIL-STD-882, System Safety Program Requirements?

ENDTEXT

Appendix D: Data Item Description Question Programs

This appendix shows the programs used to ask the user if a DID is required by their contract. These programs are accessed through the LSAR Tailoring DSS option of the main program menu.

```
****************
*   QR7108.PRG   *
****************
```

```
* PROGRAM: QR7108.PRG
* PROGRAMMER: Capt Mike McGovern, AFIT/LSG (GAL-89)
* 26 AUG 1989

CLEAR
TEXT
            LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

    DI-R-7108, MAINTAINABILITY PREDICTION REPORT

The LSAR in conjunction with pertinent feasibility and trade
off studies, can provide all the data necessary to satisfy
the requirements of this DID.

ENDTEXT

LOCATE FOR NUMBER='DI-R-7108'              .
IF SELECTED="NO"
    @16,10 SAY "THIS DID HAS NOT BEEN PREVIOUSLY SELECTED."
ENDIF
IF SELECTED="YES"
    @16,10 SAY "THIS DID HAS BEEN PREVIOUSLY SELECTED."
ENDIF
IF SELECTED="UNSURE"
    @16,10 SAY "YOU ARE UNSURE OF THIS DID's APPLICABILITY."
ENDIF

RETURN
```

Note: The first 3 lines and the last 12 lines of the program above are common to all of the programs in this appendix and are omitted on the following pages.

```
***************
*  QR7109.PRG  *
***************
```
CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your
contract?

DI-R-7109, MAINTAINABILITY ANALYSIS REPORT

The LSAR in conjunction with pertinent feasibility and trade
off studies, can provide all the data necessary to satisfy
the requirements of this DID.

ENDTEXT
```
***************
*  QR7081.PRG  *
***************
```
CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your
contract?

DI-R-7081, RELIABILITY MATHEMATICAL MODELS

With a structured hardware generation breakdown and the
capability to record failure modes and effects analysis and
maintainability data the LSAR provides a significant degree
of data that is applicable to reliability modeling.

ENDTEXT
```
***************
*  QR7082.PRG  *
***************
```
CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your
contract?

DI-R-7082, RELIABILITY PREDICTIONS REPORTS

The LSAR provides failure rate data when quantitative data is
available and cites the source. When quantitative data is
not available the LSAR provides for the documentation of
qualitative failure probability levels.
ENDTEXT

```
****************
*  QR7085A.PRG  *
****************
```

CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your
contract?

DI-R-7085A, FAILURE MODE, EFFECTS, AND CRITICALITY
ANALYSIS
(FMECA)

The LSAR provides all the FMECA worksheet data necessary to
satisfy the requirements of this DID. Additional information
such as FMECA assumptions, block diagrams, excluded items
list, critical components, ect. may also be required.
ENDTEXT

```
****************
*  QR7095.PRG  *
****************
```

CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your
contract?

DI-R-7095, RELIABILITY PREDICTION AND DOCUMENTATION OF
SUPPORTING DATA

The LSAR documents a high percentage of the type of reporting
data described by this DID to include: parts descriptions,
service use profiles, environmental data, redesign
information, failure detection methods, and compensating
procedures. It is also designed to accommodate documentation
of multiple system/equipment configuration data.
ENDTEXT

```
****************
*  QS30554A.PRG  *
****************
```

CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your
contract?
DI-S-30554A, NUCLEAR SURVIVABILITY DESIGN AND TRADE
STUDY REPORT

The LSAR provides a significant degree of information related
to nuclear hardness and survivability considerations.
ENDTEXT

```
****************
*  QL7189.PRG  *
****************
```
CLEAR
TEXT

          LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

      DI-L-7189, MAINTENANCE ALLOCATION CHART

The LSAR provides all of the data requirements of this DID
except for any explanatory remarks which may be required.

ENDTEXT
```
****************
*  QL2085A.PRG  *
****************
```
CLEAR
TEXT

          LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

      DI-L-2085A, LEVEL OF REPAIR ANALYSIS REPORT

The LSAR provides the reliability, maintainability,
maintenance, manpower and personnel data required by this
DID. Additional data such as personnel and training costs,
supply pipeline items, and the density of equipment to be
supported must be obtained separately for the LSAR.
ENDTEXT
```
****************
*  QR3549A.PRG  *
****************
```
CLEAR
TEXT
          LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

      DI-R-3549A, REPAIR LEVEL ANALYSIS REPORT

The LSAR provides the reliability, maintainability,
maintenance, manpower, and personnel data required by this
DID. Additional data in the way of sensitivity analyses and
decision logic must be developed separately.

ENDTEXT

```
****************
*  QH7048.PRG  *
****************
```
CLEAR
TEXT

      LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

   Is the following logistics related DID required by your
contract?

    DI-H-7048, SYSTEM SAFETY HAZARD ANALYSIS REPORT

The LSAR contains data related to failure modes, effects and
criticality. This data can be used as a source data for the
evaluation of the system/equipment from a safety standpoint.
The LSAR also identifies hazardous maintenance tasks.

ENDTEXT

```
****************
*  QS6177B.PRG  *
****************
```
CLEAR
TEXT

      LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

   Is the following logistics related DID required by your
contract?

    DI-S-6177B, SUMMARY, CALIBRATION/MEASUREMENT REQUIREMENT

The LSAR provides all of the data necessary to satisfy the
requirements of this DID. However, some data element coding
will require modification to satisfy DID requirements. ·

ENDTEXT

```
****************
*  QL7165.PRG  *
****************
```
CLEAR
TEXT

      LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

   Is the following logistics related DID required by your
contract?

    DI-L-7165, MAINTENANCE PLAN REPORT

The LSAR provides all the data necessary to satisfy the
requirements of this DID.
ENDTEXT

```
****************
*  QS6169.PRG  *
****************
```
CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your
contract?

DI-S-6169, OPTIMUM REPAIR LEVEL ANALYSIS (ORLA) REPORT

The LSAR data base contains all of the R&M, manpower and
personnel, and maintenance data required to exercise a
deterministic or stochastic model either manually or via
computer routines for the accomplishment of the ORLA.
Additional data pertaining to the cost of personnel and
training, supply pipeline times, and density of equipment
must be obtained separately to meet requirements of the DID.

ENDTEXT

```
****************
*  QH7057.PRG  *
****************
```
CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your
contract?

DI-H-7057, HUMAN ENGINEERING DESIGN APPROACH DOCUMENT
MAINTAINER

The LSAR, in conjunction with applicable sketches, drawings,
or photographs, provides all the data required to satisfy the
requirement of this DID.
ENDTEXT

```
****************
*  QH7068.PRG  *
****************
```
CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your
contract?
DI-H-7068, TASK AND SKILL ANALYSIS REPORT
The LSAR provides all the data required to satisfy the
requirements of the DID.
ENDTEXT

```
****************
*  QL7190.PRG  *
****************
```
CLEAR
TEXT

             LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

      Is the following logistics related DID required by your
      contract?

        DI-L-7190, PRELIMINARY MAINTENANCE ALLOCATION CHART

The LSAR provides all of the data necessary to satisfy the
requirements of this DID except for any explanatory remarks
required.

ENDTEXT

```
****************
*  QH7090.PRG  *
****************
```
CLEAR
TEXT

             LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

      Is the following logistics related DID required by your
      contract?

        DI-H-7090, TRAINING PATH SYSTEM DOCUMENTATION

The LSAR provides a significant amount of data related to
personnel requirements and training required to develop
necessary knowledge and skills to operate and maintain
system/equipment.

ENDTEXT

```
****************
*  QH7091.PRG  *
****************
```
CLEAR
TEXT

             LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

      Is the following logistics related DID required by your
      contract?

        DI-H-7091, PERSONNEL PERFORMANCE PROFILES

The LSAR provides all the data necessary to identify minimum
knowledge and skill levels required by this DID.

ENDTEXT

```
****************
*  QH3258.PRG  *
****************
```
CLEAR
TEXT

          LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

     DI-H-3258, TRAINING SUPPORT DATA

The LSAR provides a significant amount of information
suitable for use in establishing and supporting preliminary
training requirements.

ENDTEXT
```
****************
*  QH6135A.PRG  *
****************
```
CLEAR
TEXT

          LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

     DI-H-6135A, REPORTS, FACILITIES-MAINTENANCE TRAINING
     EQUIPMENT

The LSAR provides a significant degree of data related to the
requirement for training equipment and facilities that is
applicable to the requirements of this DID and supportive
layout planning and design of required facilities.

ENDTEXT
```
****************
*  QH1300.PRG  *
****************
```
CLEAR
TEXT

          LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

     DI-H-1300, PERSONNEL AND TRAINING REQUIREMENTS

The LSAR provides all of the data necessary to satisfy the
requirements of the DID except in the area of a detailed New
Equipment Training (NET) Requirements Report.
ENDTEXT

```
****************
*  QH7067.PRG  *
****************
```

CLEAR
TEXT

          LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

     Is the following logistics related DID required by your
     contract?

       DI-H-7067, TRAINING COURSE PROPOSAL

The LSAR provides training oriented information supportive of
the requirements of this DID.

ENDTEXT

```
****************
*  QH7069.PRG  *
****************
```

CLEAR
TEXT

          LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

     Is the following logistics related DID required by your
     contract?

       DI-H-7069, TRAINING COURSE CURRICULUM OUTLINES

The LSAR provides training oriented considerations and
rationale useful in satisfying the requirements of this DID.

ENDTEXT

```
****************
*  QI80118.PRG  *
****************
```

CLEAR
TEXT

          LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

     Is the following logistics related DID required by your
     contract?

       DI-ILSS-80118, SUPPORT EQUIPMENT RECOMMENDATIONS DATA
       (SERD)

Information will be accumulated using the LSAR to support and
validate the recommendations for operating and maintenance
support equipment.

ENDTEXT

```
*****************
*  QL1421A.PRG  *
*****************
```
CLEAR
TEXT

        LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

      DI-L-1421A, TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT
      DATA
               SHEETS

The LSAR provides all the information required to satisfy
this DID.

ENDTEXT

```
*****************
*  QT3734A.PRG  *
*****************
```
CLEAR
TEXT

        LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

      DI-T-3734, TEST REQUIREMENTS DOCUMENT (TRD)

LSAR Data can be supplied to newly designed or existing items
selected for testing on automatic, semiautomatic or manual
test equipment on which a TRD does not exist.

ENDTEXT
```
*****************
*  QV6186A.PRG  *
*****************
```
CLEAR
TEXT

        LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

      DI-V-6186A, PRICED SUPPORT EQUIPMENT LIST (PSEL)

The LSAR contains the contractor's proposed prices and
quantities of support equipment which can be used by the
contracting agency for negotiations.
ENDTEXT

```
****************
*  QV7193.PRG  *
****************
```

CLEAR
TEXT

            LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

        DI-V-7193, PROVISIONING PARTS LIST INDEX

The LSAR provides all of the data to satisfy the requirements
of this DID.

ENDTEXT

```
****************
*  QV7192.PRG  *
****************
```

CLEAR
TEXT

            LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

        DI-V-7192, SYSTEM CONFIGURATION PROVISIONING LIST (SCPL)

The LSAR provides all the data to satisfy the requirements of
this DID.

ENDTEXT

```
****************
*  QV6180.PRG  *
****************
```

CLEAR
TEXT

            LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

        DI-V-6180, RECOMMENDED REPAIR PARTS LIST
        (PREOPERATIONAL)

The LSAR provides all the data required to satisfy the
reuirements of this DID except the prime contractor's part
number, spares allocation recommendation and extended unit
price.

ENDTEXT

```
****************
*  QS1815.PRG  *
****************
```
CLEAR
TEXT

           LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

       DI-S-1815, DEPOT MAINTENANCE STUDY

The LSAR provides a significant amount of information which
directly satisfies data requirements of this DID.

ENDTEXT

```
****************
*  QV7002A.PRG  *
****************
```
CLEAR
TEXT

           LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

       DI-V-7002A, PROVISIONING PARTS LIST

The LSAR provides all of the data required to satisfy the
requirements of this DID.

ENDTEXT

```
****************
*  QV7003A.PRG  *
****************
```
CLEAR
TEXT

           LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

    Is the following logistics related DID required by your
    contract?

       DI-V-7003A, SHORT FORM PROVISIONING PARTS LIST (SFPPL)

The LSAR provides all of the data required to satisfy this
DID.

ENDTEXT

```
****************
*  QV7004A.PRG  *
****************
```
CLEAR
TEXT

        LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

   Is the following logistics related DID required by your
   contract?

     DI-V-7004A, LONG LEAD TIME ITEMS LIST (LLTIL)

The LSAR provides all of the data required to satisfy this
DID.

ENDTEXT

```
****************
*  QV7005A.PRG  *
****************
```
CLEAR
TEXT

        LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

   Is the following logistics related DID required by your
   contract?

     DI-V-7005A, REPAIRABLE ITEM LIST

The LSAR provides all of the data required to satisfy this
DID.

ENDTEXT

```
****************
*  QV2074.PRG  *
****************
```
CLEAR
TEXT

        LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

   Is the following logistics related DID required by your
   contract?

     DI-V-2074, SUPPORT EQUIPMENT LIST (SEL)

The LSAR provides all of the data required to satisfy this
DID.

ENDTEXT

```
****************
*  QV7006A.PRG  *
****************
```
CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your
contract?

DI-V-7006A, INTERIM SUPPORT ITEMS LIST

The LSAR provides all of the data required to satisfy this
DID.

ENDTEXT

```
****************
*  QV7007A.PRG  *
****************
```
CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your
contract?

DI-V-7007A, TOOLS AND TEST EQUIPMENT LIST (TTEL)

The LSAR provides all of the data required to satisfy this
DID.

ENDTEXT

```
****************
*  QV7008A.PRG  *
****************
```
CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your
contract?

DI-V-7008A, COMMON AND BULD ITEMS LIST (CBIL)

The LSAR provides all of the data required to satisfy this
DID.

ENDTEXT

```
                    *****************
                    *  QV7009A.PRG  *
                    *****************
CLEAR
TEXT
          LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

   Is the following logistics related DID required by your
   contract?

      DI-V-7009A, DESIGN CHANGE NOTICES (DCN)

The LSAR provides all of the data required to satisfy this
DID.

ENDTEXT


                    *****************
                    *  QV7011A.PRG  *
                    *****************
CLEAR
TEXT
          LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

   Is the following logistics related DID required by your
   contract?

      DI-V-7011A, POST CONFERENCE LIST (PCL)

The LSAR provides all of the data required to satisfy this
DID.

ENDTEXT


                    *****************
                    *  QV7016F.PRG  *
                    *****************
CLEAR
TEXT
          LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

   Is the following logistics related DID required by your
   contract?

      DI-V-7016F, PROVISIONING AND OTHER PREPROCUREMENT
      SCREENING DATA

The LSAR provides all of the data required to satisfy this
DID.

ENDTEXT
```

```
****************
*  QM6152A.PRG  *
****************
```
CLEAR
TEXT

    LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)
 Is the following logistics related DID required by your
contract?

  DI-M-6152A, MANUALS, OPERATION AND MAINTENANCE
  INSTRUCTION, MAINTENANCE TRAINING EQUIPMENT

The LSAR can provide all of the source data required to
produce the operation and maintenance instructions and
illustrated parts breakdown (IPB).
ENDTEXT
```
****************
*  QM1517.PRG  *
****************
```
CLEAR
TEXT

    LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)
 Are the following logistics related DIDs required by your
contract?

  DI-M-1517, TECHNICAL MANUALS and DI-M-3407C, TECHNICAL
  ORDERS

The LSAR can provide a significant amount of data required to
satisfy these DIDs. Missing from the LSAR are the figures,
illustrations, and tables of content necessary to complete
the camera-ready manuscripts.
ENDTEXT
```
****************
*  QS6174B.PRG  *
****************
```
CLEAR
TEXT

    LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

  Is the following logistics related DID required by your
contract?

  DI-S-6174B, FACILITIES DESIGN CRITERIA

The LSAR contains data pertaining to facilities items where
the new system imposes constraints on the design that must be
observed for reasons of system compatibility. These
constraints can influence the operational, maintenance, and
training categories.
ENDTEXT

```
****************
*  QS6175B.PRG  *
****************
```

CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your
contract?

DI-S-6175B, FACILITY DESIGN CONCEPTS

LSAR data submitted under this data item are essentially an
extension of facilities Design Criteria and applies to the
same categories of facilities.

ENDTEXT

```
****************
*  QE2143.PRG   *
****************
```

CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your
contract?

DI-E-2143, COMPUTER PROGRAM TEST SPECIFICATION

The LSAR provides data which is reviewed by the procuring
agency to ensure the overall objectives are fulfilled and
that the primary features of the program software are
evaluated.

ENDTEXT

```
****************
*  QT2144.PRG   *
****************
```

CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your
contract?

DI-T-2144, COMPUTER PROGRAM TEST PROCEDURES

The LSAR contains the quantitative results of tests, detailed
instructions for test et up, execution and test results and
other data elements relevant to the computer program.
ENDTEXT

```
        *****************
        *  QS30569.PRG  *
        *****************
```
CLEAR
TEXT

LOGISTICS RELATED DATA ITEM DESCRIPTIONS (DIDs)

Is the following logistics related DID required by your contract?

DI-S-30569, COMPUTER RESOURCES INTEGRATED SUPPORT DATA (CRISD)

The LSAR contains data elements to identify computer resources necessary to implement support of computer programs.

ENDTEXT

Appendix E: Logistics Related Program Element Guidance Programs

The purpose of this appendix is to show all program element related guidance programs used by the LSAR DSS. These programs provide tailoring information to the user related to the six military standards used by the DSS. This appendix shows both the text and dBASE commands contained in each program.

```
****************
*  GMS470.PRG  *
****************
```

CLEAR
TEXT
             LSAR INTERFACING PROGRAM ELEMENTS

Maintainability is one of the key factors influencing system design, systems effectiveness, logistics support requirements and LCC. Along with reliability, these two factors help determine the system's operational readiness or availability. Thus an effective program is one in which a conscious effort is made to include R&M parameters. The LSAR can store maintainability parameters and information in the A, B1, B2, D, D1, E, E1, E2, F, G, and J data records. The Data Elements of these records should be reviewed against program requirements and MIL-STD-1388-2A's Data Element Dictionary prior to completion of DD Form 1949-1.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GMS785.PRG  *
****************
```

CLEAR
TEXT

LSAR INTERFACING PROGRAM ELEMENTS

Reliability is one of the key factors influencing system
design, systems effectiveness, logistics support requirements
and LCC. Along with maintainability, these two factors help
determine the system's operational readiness or availability.
Thus an effective program is one in which a conscious effort
is made to include R&M parameters. The LSAR can store
reliability information and parameters in the A, B1, B2, C,
D, D1, H, H1, and J data records. The Data Elements of these
records should be reviewed against program requirements and
MIL-STD-1388-2A's Data Element Dictionary prior to completion
of DD Form 1949-1.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GMS1629.PRG  *
****************
```

CLEAR
TEXT

LSAR INTERFACING PROGRAM ELEMENTS

The Failure Mode, Effects, and Criticality (FMECA) program
provides an analysis of independent single item failures and
the resulting potential impact on mission success
performance, personnel safety, and maintainability. The
analysis promotes design corrective actions by identifying
potential failure risks. The LSAR can document FMECA
information and parameters in the B, B1, B2, C, D, and D1
data records. The data elements of these records should be
reviewed against program requirements and MIL-STD-1388-2A's
Data Element Dictionary prior to completion of DD Form
1949-1.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GMS2073.PRG  *
****************
```

CLEAR
TEXT
LSAR INTERFACING PROGRAM ELEMENTS

The Packaging, Handling, Shipping and Transportation (PHS&T)
program is set up to ensure that all Air Force material can
be moved by existing or planned military and commercial
transportation and is afforded required protection at a
minimum cost, consistent with deployment and operational
requirements. The LSAR can document PHS&T information and
criteria in the H and H1 data records. The data elements of
these records should be reviewed against program requirements
and MIL-STD-1388-2A's Data Element Dictionary prior to
completion of DD Form 1949-1.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GMS1561.PRG  *
****************
```

CLEAR
TEXT
LSAR INTERFACING PROGRAM ELEMENTS

Provisioning is the process for determining and acquiring the
range and quantity of support items needed to operate and
maintain an end item of material for an initial period of
service. The objective of provisioning is to ensure the
timely availability of initial stocks of support items to
sustain the programmed operation of end items until normal
replenishment can be effected. The LSAR can document almost
all provisioning information and technical data in the H and
H1 data records. The data elements of these records should
be reviewed against program requirements and
MIL-STD-1388-2A's Data Element Dictionary prior to completion
of DD Form 1949-1.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GMS882.PRG  *
****************
```

```
CLEAR
TEXT
```

LSAR INTERFACING PROGRAM ELEMENTS

The objective of the System Safety Program is to develop the
highest level of safety within the constraints of operational
effectiveness, time, and cost attained through specific
application of engineering principles identifying hazards and
minimizing risks through all phases of the system life cycle.
The LSAR can document safety information, FMECA data, and
safety hazard severity codes in the B, B1, B2, D, D1, H, and
J data records. The data elements of these records should be
reviewed against program requirements and MIL-STD-1388-2A's
Data Element Dictionary prior to completion of DD Form
1949-1.

```
ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

Appendix F: <u>Data Item Description Guidance Programs</u>

The purpose of this appendix is to show all DID related guidance programs used by the LSAR DSS which provide tailoring information to the user. It shows both the text and dBASE commands contained in each program.

```
****************
*  GR7108.PRG  *
****************
```

```
CLEAR
TEXT
     DATA ITEM DESCRIPTION (DID) RELATED TO THE LSAR

DI-R-7108, Maintainability Prediction Report:  This report
provides
the requiring authority with a qualitative and quantitative
assessment of the system/equipment design for use in
monitoring the attainment of specified maintainability
parameters.  LSAR 019, 023, 051, 053, and 055 output
summaries provide information pertinent to the
system/equipment maintainability considerations.  LSA Reports
001 through 015 output summaries may also be useful.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
***************
*  GR7109.PRG  *
***************
```

CLEAR
TEXT
     DATA ITEM DESCRIPTION (DID) RELATED TO THE LSAR

DI-R-7109, Maintainability Analysis Report: This report
provides the requiring authority with a qualitative and
quantitative assessment of the system/equipment design for
use in monitoring the attainment of specified maintainability
parameters. LSAR 019, 023, 051, 053, and 055 output
summaries provide information pertinent to the
system/equipment maintainability considerations. LSA Reports
001 through 015 output summaries may also be useful.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


```
***************
*  GR7081.PRG  *
***************
```

CLEAR
TEXT
     DATA ITEM DESCRIPTION (DID) RELATED TO THE LSAR

DI-R-7081, Reliability Mathematical Models: Reliability
mathematical models are used to apportion reliability
requirements to various functions and/or levels of hardware
within the total system, to predict the probability of
meeting these requirements, and for later reliability
assessments. Currently there are no LSAR automated extracts
available specifically to produce source data for modeling
purposes. Use the LSAR data records A, B, B1 and B2 to
obtain reliability parameters and failure data.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
                    ****************
                    *  GR7082.PRG  *
                    ****************

CLEAR
TEXT
        DATA ITEM DESCRIPTION (DID) RELATED TO THE LSAR

DI-R-7082, Reliability Prediction Reports: This report
documents reliability predictions made by contractors.  Use
the LSA 052 and 054 reports to obtain failure rate, failure
probability and failure rate data as source information to
support the requirements of this DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN



                    ****************
                    *  GR7085A.PRG  *
                    ****************


CLEAR
TEXT
        DATA ITEM DESCRIPTION (DID) RELATED TO THE LSAR

DI-R-7085A, Failure Mode, Effects, and Criticality Analysis
(FMECA): This report provides an analysis of independent
single item failures and the resulting potential impact on
mission success performance, personnel safety, and
maintainability. The analysis promotes design corrective
actions by identifying potential failure risks in order that
appropriate actions may be taken to eliminate or control the
high risk items.  The information documented on the LSAR data
records B, B1 and B2 is automated and used to produce
standard output reports that are specifically applicable to
this DID.
ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  GR7095.PRG  *
****************
```

CLEAR
TEXT
      DATA ITEM DESCRIPTION (DID) RELATED TO THE LSAR

DI-R-7095, Reliability Prediction and Documentation of
Supporting Data: This report documents contractor
quantitative predictions of end item reliability. This
report is intended as support for feasibility evaluations,
comparison of alternative configurations, identification of
potential problems, logistics support planning, logistics
cost studies, determinations of data deficiencies, trade off
decisions, allocation of requirements, and criteria of
reliability growth and demonstration testing. LSA 023, 051,
052, 054, and 055 reports provide automated summarization of
reliability information.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


```
******************
*  GS30554A.PRG  *
******************
```

CLEAR
TEXT
      DATA ITEM DESCRIPTION (DID) RELATED TO THE LSAR

DI-S-30554A, Nuclear Survivability Design Analysis and Trade
Study Report: This report documents results and rationale of
the contractor's planned incorporation of nuclear hardness
and survivability considerations into the design of each
configuration item or any of its constituents elements. The
LSA 023 and 015 reports can be useful in providing summarized
data related to this DID. Use the LSAR data records B, C, D,
and D1 to obtain required data.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GL7189.PRG  *
****************
```

CLEAR
TEXT
        DATA ITEM DESCRIPTION (DID) RELATED TO THE LSAR

DI-L-7189, Maintenance Allocation Chart: This is a management
tool which assigns all authorized maintenance functions and
repair options to be performed by the lowest appropriate
maintenance category, and delineates the tools and test
equipment required to perform the operations. The MAC is a
controlling influence in the operation of equipment
publications and in the selection of repair parts. The MAC
is included as an appendix of the appropriate technical
manual. Use the LSAR input data records C, D1, and H to
arrange the data in the MAC format. Use the LSA-004 and 020
reports with the reproducible option to completely satisfy
the DID requirements.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


```
****************
*  GL2085A.PRG  *
****************
```

CLEAR
TEXT
        DATA ITEM DESCRIPTION (DID) RELATED TO THE LSAR

DI-L-2085A, Level of Repair (LOR) Analysis Report: Documents
and supports the contractor's recommendations for most
economical repair levels, repair versus discard at the
operational sites and spare/repair part provisioning
decisions. This DID describes the requirements specified by
MIL-STD-1390, LOR Analysis Report. LSAR data records A, B,
B1, B2, C, D1, H, and H1 are used to obtain data required by
this DID. The LSA-060 and 061 master file report listing
should be used as source data required by the DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GR3549A.PRG  *
****************
```

CLEAR
TEXT
     DATA ITEM DESCRIPTION (DID) RELATED TO THE LSAR

DI-R-3549A, Repair Level Analysis Report: Provides the
government with the results of contractor performed
system/equipment maintenance and logistics support level
analysis, and documents the support recommendations regarding
repair versus discard at failure maintenance and optimum
repair level considerations. LSAR data records A, B, B1, B2,
C, D1, H, and H1 are used to obtain data required by this
DID. The LSA-060 and 061 master file report listing should be
used as source data required by the DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


```
****************
*  GH7048.PRG  *
****************
```

CLEAR
TEXT
     DATA ITEM DESCRIPTION (DID) RELATED TO THE LSAR

DI-H-7048, System Safety Hazard Analysis Report:
Systematically identifies, evaluates, and documents hazards,
both real and potential, for their elimination or control.
The LSAR data records B, B1, and B2 can be used to obtain
failure modes, effects, and criticality analysis (FMECA) data
related to safety hazard severity codes for input to this
DID. The LSA-050, 052 and 054 reports can be obtained by
safety hazard severity code and contain the FMECA data to
support the development of this DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GS6177B.PRG  *
****************
```

CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE ISAR

DI-S-6177B, Summary, Calibration/Measurement Requirement: Is
a summary of the technical requirements of a system,
subsystem and/or equipment outlining the measurement
parameters, specifying ranges, accuracy requirements, and
calibration intervals for each echelon of measurement. The
data is used to determine adequacy of support for
system/equipment requiring common. standard or peculiar test
and measurement equipment. Use the LSAR data records D, D1,
E, E1, and H along with LSA summary reports LSA-005, 019 and
061 for subsequent arrangement of the data in the applicable
format.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


```
****************
*  GL7165.PRG  *
****************
```

CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-L-7165, Maintenance Plan Report: Provides a concise
narrative of the maintenance actions, source, maintenance and
recoverability codes, and technical factors for each
repairable item and the identification of the
system/equipment maintenance requirements. The LSAR data
records B, C, D1, H, and H1 can be used to arrange the data
in the applicable format. Use the LSA-024 report to satisfy
the requirements of this DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```

```
****
* GS6169.PRG *
****
```

CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-S-6169, Optimum Repair Level Analysis (ORLA) Report: Can
advise the requiring activity of the results of the ORLA
conducted by the contractor.  The report documents and
supports the contractor recommendations for optimum repair
levels, repair versus discard at failure, use of GFE, support
equipment spares and spare/repair part provisioning.  The
LSAR B, B1, B2, D1, H, and Hi data records contain the data
required to support an ORLA report.  The LSA-060 and 061
master file reports contain all of the data necessary to
support development of an ORLA report.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


```
****************
*  GH7057.PRG  *
****************
```

CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-H-7057, Human Engineering Design Approach Document
Maintainer: This document provides a source of data to
evaluate the extent to which equipment having interface with
maintainers meet human performance requirements and human
engineering design criteria. The LSAR B data record is the
main source for evaluation of individual human engineering
considerations. LSAR B1, B2, D, D1, E, E1, F, and G data
records and LSA-050 through 055 can also provide supportive
information to complete this DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```

```
                ****
                * GH7068.PRG *
                ****

CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-H-7068, Task and Skill Analysis Report: Provides timely
and accurate identification of technical tasks which will be
performed by operator and maintenance personnel, job
description, and manpower requirements necessary for the
operation, maintenance, and repair of systems and equipment.
Obtain data required from the LSAR data records A, B, B1, B2,
C, D, D1, E, E1, F, and G. The LSA-001 through 015, 019 and
023 reports' automated output all provide data applicable to
the requirements of this DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

                ****
                * GL7190.PRG *
                ****

CLEAR
TEXT
     DATA ITEM DESCRIPTION (DID) RELATED TO THE LSAR

DI-L-7190, Preliminary Maintenance Allocation Chart: The
Preliminary Miantenance Allocation Chart (PMAC) is a list of
all items, down to the lowest level of disassembly,
recommending the category of maintenance, recoverability
aspects, essentially, tools required to perform specific
maintenance operations, and remarks required to explain the
maintenance operations. The PMAC includes additional data
(over and above the required MAC data) and may be used to
develop the MAC for the organizational technical manual.
Use LSAR input data records C, D1, H, H1 to arrange the data
in PMAC format and generate Cover Sheet and Remarks page to
satisfy the DID manually or use the LSA-016 and 017 reports
to satisfy the PMAC requirements.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
***************
*  GH7090.PRG  *
***************
```

CLEAR
TEXT
    DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-H-7090, Training Path System Documentation: This DID a is
structured approach to identify training requirements
required by specific personnel to ensure the effective
development of skills and knowledge necessary to coordinate,
direct, and perform operation and maintenance of a system,
subsystem, and equipment. The LSAR G data record is
especially applicable as it documents new skill requirements,
physical and mental requirements, educational qualifications
and training requirements with narrative justification. Use
the G data record option of the LSA-060 and 001-015 Summaries
related to personnel considerations.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
***************
*  GH3258.PRG  *
***************
```

CLEAR
TEXT
    DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-H-3258, Training Support Data: These data, required early
in the acquisition of a system/equipment, are used to support
training when it is not economically feasible to deliver
technical orders/manuals in time for training. Use the LSAR
B, D, D1, E, E1, and G data records to obtain information
relative to QQPRI operation and maintenance instructions,
equipment descript   and function data, and testing
procedures. The LSA 001-003, 005-007, 011-014, and 023
reports provide training support data.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GH7091.PRG  *
****************
```

CLEAR
TEXT
    DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-H-7091, Personnel Performance Profiles: Personnel
Performance Profiles are complete listings of minimum
knowledge and skills required for personnel to effectively
operate and maintain a system, subsystem or equipment. They
are used as a basis for:

    a. Determining training requirements. b. Developing
    personnel evaluation criteria. c. Standardizing training
    materials among program participants d. Developing
    course objectives in curricular and training materials
    e. Minimizing duplication in coverage of knowledge and
    skills

ENDTEXT
@22,1
WAIT "PRESS ANY KEY FOR MORE INFORMATION ABOUT DI-H-7091"
CLEAR
TEXT
    DATA ITEM DESCRIPTIONS (DIDs) RELATED TO LSAR

DI-H-7091, Personnel Performance Profiles (page 2 of 2)

Use the manpower and skill constraints from the A data
record, the sequential task information and skill specialty
code data on the D data record, the personnel summary data on
the D1 record, and the G data record as sources of required
information. The LSA-060 report with the data record G
option and the LSA-001, 002, 006, 007, 008, 011, 012, 014,
015, and 023 reports provide information related to the
requirements of this DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GH6135A.PRG  *
****************
```

CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-H-6135A, Reports, Facilities-Maintenance Training
Equipment: This DID provides information for Maintenance
Training Equipment (MTE) Facilities. Use the LSAR E, E1, and
F data records to have source data documented. The LSA-060
report can provide this information.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


```
****************
*  GH1300.PRG  *
****************
```

CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-H-1300, Personnel and Training Requirements: Qualitative
and quantitative information developed by the contractor is
used by responsible equipment management agencies to identify
operator and maintenance personnel requirements by numbers,
skills and other qualifications, and to plan for the conduct
of necessary training programs in operations and maintenance.
LSAR data records C, D, D1, and G can be used to obtain/store
the data required by this DID. The LSA-001, 002, 011 and 014
output summaries all provide data applicable to the
requirements of the DID. Currently, no automated report
exists to obtain data recorded on the G data record.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GH7067.PRG  *
****************
```

CLEAR
TEXT
      DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-H-7067, Training Course Proposal: The proposal required by
this DID is intended to provide technical and cost
information required for the acquisition of training courses
and instructor training services. Use the LSAR D, D1, E, E1,
and G data records to store/obtain required information. The
information can also be obtained by using the LSA-014 and 015
reports.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GH7069.PRG  *
****************
```

CLEAR
TEXT
      DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-H-7069, Training Course Curriculum Outlines: The outlines
of this DID are used to organize the course of instruction to
ensure that all required topics are included and adequately
covered within a course. Use the LSAR D, D1, E, E1 and G data
records to store/obtain required training information.
LSA-014 and 015 reports can also be used to obtain this
information.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GI80118.PRG  *
****************
```

CLEAR
TEXT
        DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-ILSS-80118, Support Equipment Recommendations Data (SERD):
Represents the contractor's recommendations for maintenance
level operational support equipment and the support equipment
necessary for organizational, intermediate and depot level
maintenance. The LSAR input data records E, E1, and E2
contain all of the data necessary to satisfy the requirements
of this DID. The LSA-070 report satisfies the requirements
of this DID. NOTE: Delivery of associated drawings needs to
be worked out in conjunction with using LSA and LSAR to
review SERDs.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


```
****************
*  GL1421A.PRG  *
****************
```

CLEAR
TEXT
        DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-L-1421A, Test Measurement and Diagnostic Equipment Data
Sheets: This data item describes Department of Army Test,
Measurement, and Diagnostic Equipment (TMDE) Program
documentation requirements applicable to the procurements or
development of TMDE. The E, E1, and E2 LSAR data records can
be used to store/obtain the information required by this DID.
The LSA-060 record selected against the support equipment LCN
can provide the required data.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GT3734A.PRG  *
****************
```

CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-T-3734A, Test Requirements Document (TRD): This DID
identifies performance and diagnostic test data. These data
are used in the preparation of test packages or test
procedures for automatic, semiautomatic, or manual test
equipment. It also specifies the test or test considerations
required for performance testing and fault diagnosis. The
LSAR provides the data necessary to satisfy the requirements
of this DID. Transfer the information from input data
records C, D, D1, E, E1 and complete the TRD.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


```
****************
*  GV6186A.PRG  *
****************
```

CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-V-6186A, Priced Support Equipment List: The basic document
reflecting proposed prices and quantities to be negotiated
and exhibited by modification of the contract. The LSAR
provides the data necessary to satisfy the requirements of
this DID. Extract the information using the LSA-009 report
or from the E, E1, H, and H1 LSAR data records and obtain
prime contractor's part number and current pricing
information to complete the DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GV7193.PRG  *
****************
```

CLEAR
TEXT
        DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-V-7193, Provisioning Parts List Index: The provisioning
numerical listing/index provides a listing of components,
assemblies and support items used in the end item furnished
under the contract. The list is used as an indexing tool for
parts application and/or location within the total and item
breakdown. LSAR H and H1 data records are used to
store/obtain this information. The LSA-151 report,
Provisioning Parts List Index, can be automatically produced
to satisfy the requirements of this DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


```
****************
*  GV7192.PRG  *
****************
```

CLEAR
TEXT
        DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-V-7192, System Configuration Provisioning List (SCPL):
This list identifies components and attaching parts used to
integrate the component into the end item, when the
components are provisioned under separate provisioning lists.
LSAR H and H1 data records can be used to store/obtain the
list. The LSA-036, Provisioning Requirements Summary, will
satisfy the requirements of this DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
                ****************
                *  GV6180.PRG  *
                ****************

CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-V-6180, Provisioning Repair Parts Lists (Preoperational):
Provides a listing of the contractor's recommended repair
parts required to maintain the contract end item, related
ground support equipment and training equipment approved for
contractor support program during the preoperational period
approved by the military services.  The list is used to
establish preoperational repair parts and training equipment.
LSAR H and H1 can be used to store/obtain the information
required. LSA-009 and 036 reports can produce the data
requirements of the DID. They can also be tailored to
specific requirements by using the various parameters
allowed.  The lists must be updated with the contractor's
part number, spares allocation and the extended unit price to
meet the requirements of this DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


                ****************
                *  GS1815.PRG  *
                ****************

CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-S-1815, Depot Maintenance Study: Determines manpower,
skills, tooling, and space required for depot support.  Data
documented on the C, D, D1, E, E1, F, H, and H1 LSAR data
records can be used to store/obtain information for
completion of this study.  The LSA-004, 005, 008, 009, 012,
015, 020, 024, 027, 029, 030, 031, and 053 reports all
provide data pertinent to this DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
                 ****************
                 *  GV7002A.PRG  *
                 ****************

CLEAR
TEXT
    DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-V 7002A, Provisioning Parts List (PPL): The PPL is a
listing of components, assemblies, and support items used in
the end item which are furnished under contract.  The list is
used to determine the range and quantity of support items
required to maintain the end item for an initial period of
time.  The information can be stored/obtained on the H and H1
LSAR data record.  The LSA-036, Provisioning Requirements
Summary, will satisfy the requirements of the DID.  The PPL
can be tailored to specific requirements by using the various
parameters allowed in the request transaction.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


                 ****************
                 *  GV7003A.PRG  *
                 ****************

CLEAR
TEXT
    DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-V-7003A, Short Form Provisioning Parts List (SFPPL):
Serves as early identification of support items which are
recommended by the contractor for initial provisioning of an
end item.  LSAR H and H1 data records can be used to
store/prepare the list.  Also, the LSA-036, Provisioning
Requirements Summary, will satisfy the requirements of this
DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  GV7004A.PRG  *
****************
```

CLEAR
TEXT
       DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-V-7004A, Long Lead Time Items List (LLTIL): The LLTIL is a
listing of those items which because of their complexity of
design, complicated manufacturing process or limited
production or procurement cycles would preclude timely and
adequate delivery. The list identifies those items that must
receive priority in budgeting and/or procurement due to the
long lead time involved. LSAR H and H1 data records can be
used to store/prepare the list. Also, the LSA-036,
Provisioning Requirements Summary, will satisfy the
requirements of this DID. The list can be tailored to
specific requirements by using various parameters allowed in
the requests transaction(s).

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GV7005A.PRG  *
****************
```

CLEAR
TEXT
       DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-V-7005A, Repairable Item List: This list identifies all
items which are repairable within the breakdown of the end
item. Items may be further classified for on-site or
retrograde to a designated refurbishment activity. The
listing serves as a provisioning tool to make depth of stock
calculations. LSAR H and H1 data records can be used to
store/prepare the list. Also, the LSA-036, Provisioning
Requirements Summary, will satisfy the requirements of this
DID. The list can be tailored to specific requirements by
using various parameters allowed in the requests
transaction(s).

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GV2074.PRG  *
****************
```

CLEAR
TEXT
    DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-V-2074, Support Equipment List (SEL): The SEL identifies
the tools and test equipment used to perform specific
operations on items. It also provides a list of material
necessary to do the servicing, testing, adjusting, and
maintaining of the end item. This list can be stored/obtained
by using data documented on D, D1, E, and E1 data records.
The LSA-004, 005, 008, 009, 020, and 030 reports also provide
data pertinent to the SEL. No automated reports currently
exist to pull information from the E and E1 records.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


```
****************
*  GV7006A.PRG  *
****************
```

CLEAR
TEXT
    DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-V-7006A, Interim Support Items List: The list identifies
those items required for support between initial operational
capability and the point in time that provisioning for
operational support has been accomplished. The list can be
used to identify the extent of interim support requirements
and in determining the budgetary aspects of that support.
LSAR H and H1 data records can be used to store/prepare the
list. Also, the LSA-036, Provisioning Requirements Summary,
will satisfy the requirements of this DID. The list can be
tailored to specific requirements by using various parameters
allowed in the requests transaction(s).

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

101

```
****************
*  GV7007A.PRG  *
****************
```

CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-V-7007A, Tools and Test Equipment List (TTEL): The TTEL
identifies items required to inspect, service, repair,
overhaul, calibrate, or test an end item. The list is used
in the procurement of required items to support the end item
under contract. LSAR H and H1 data records can be used to
store/prepare the list. Also, the LSA-036, Provisioning
Requirements Summary, will satisfy the requirements of this
DID. The list can be tailored to specific requirements by
using various parameters allowed in the requests
transaction(s).

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GV7008A.PRG  *
****************
```

CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-V-7008A, Common and Bulk Items List (CBIL): The CBIL
provides a composite listing of common hardware and
consumables necessary to support routine maintenance of a
component and are not otherwise classified as repair parts.
(e.g., nuts, bolts, electrical wiring, gasket material). The
listing will supplement other provisioning lists to complete
equipment support. LSAR H and H1 data records can be used to
store/prepare the list. Also, the LSA-036, Provisioning
Requirements Summary, will satisfy the requirements of this
DID. The list can be tailored to specific requirements by
using various parameters allowed in the requests
transaction(s).

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
        ****************
        *  GV7009A.PRG  *
        ****************

CLEAR
TEXT
    DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-V-7009A, Design Change Notices (DCN): This list identifies
those changes made to previously provisioned items.  Items
are identified as added, deleted, superseded, or modified.
The listing supplements and/or identifies the current
configuration of the end item.  LSAR H and H1 data records
 can be used to store/prepare the list. Also, the LSA-036,
Provisioning Requirements Summary, will satisfy the
requirements of this DID.  The list can be tailored to
specific requirements by using various parameters allowed in
the requests transaction(s).

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


        ****************
        *  GV7011A.PRG  *
        ****************

CLEAR
TEXT
    DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-V-7011A, Post Conference List (PCL):  Provides a reviewed
and conducted list of support items required for the
maintenance and support of a system/end item assembly.  LSAR
H and H1 data records can be used to store/prepare the list.
Also, the LSA-036, Provisioning Requirements Summary, will
satisfy the requirements of this DID.  The list can be
tailored to specific requirements by using various parameters
allowed in the requests transaction(s).

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  GV7016F.PRG  *
****************
```
CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-V-7016F, Provisioning and Other Preprocurement Screening
Data: These data are used to identify existing National Stock
Number (NSN) for an item, validate currency of an NSN, and
aid in maximum use of know assets. The LSAR provides the
capability to request DLSC screening for the reference
numbers submitted via the H input data record and stored on
the parts master file. The automated screening can be
requested for the entire file, specific reference number,
Usable On Code (UOC) or specific source code. This
capability is not related to NSN requirements. The process
will format the screening request in the required format of
DOD 4100.38-M and produce the LSA-032 summary "DLSC
Submittals," to provide a cross reference between reference
numbers and submitter's control number. Transmittal to DLSC
will be processed by the preparing activity (e.g., cards,
tape, autodin).

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```
****************
*  GS6174B.PRG  *
****************
```
CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-S-6174B, Facilities Design Criteria: Identifies specific
technical requirements upon which facility designs must be
predicted. The criteria can be transferred into construction
bid packages that will result in facilities that are
compatible with the new system and its support equipment.
LSAR input data records B, C, D, E, F, and G inclusive,
contain data elements necessary to satisfy the requirements
of this DID. The information can also be extracted through
various LSA reports, in particular the LSA-012, and
incorporated with nonautomated input data sheets E, E1, F,
and G.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
*****************
*  GM6152A.PRG   *
*****************
```

CLEAR
TEXT
        DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-M-6152A, Manuals, Operation and Maintenance, Training
Equipment: Provides the technical data, information,
instructions, and safety procedures pertaining to the
installation, operation, calibration, maintenance and
modification of maintenance training equipment (MTE). This
DID is used to procure a complete manual of operation and
maintenance instructions and an illustrated parts breakdown
for the MTE. This DID is related to DI-M-6153 and the
additional products and LSAR interfaces can be applied to
this DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY FOR MORE ABOUT DI-M-6152A"
CLEAR
TEXT
        DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-M-6152A, Manuals, Operation and Maintenance Training Equip
(2 of 2)

The operations and maintenance instructions can be developed
using the narrative data and resource requirements contained
on data records D and D1. The IPB can be developed from the
data recorded on data records H and H1. The LSA-015 and 019
reports can be used also be used to develop the instructions.
The LSA-029, 030, and 031 reports can be used to develop the
listing portion of the illustrated parts breakdown.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

105
```

```
****
* GM1517.PRG *
****
```
CLEAR
TEXT
        DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR
DI-M-1517, Technical Manuals and DI-M-3407C, Technical
Orders: These two DIDs provide technical information,
instructions, and safety procedures pertaining to the
operation, installation, maintenance and modification of
equipments and materials.  The DID is normally used to
procure technical manuals/orders covering operator and
                                maintenance instructions. (Page 1 of
                                3)
ENDTEXT
@22,1
WAIT "PRESS ANY KEY FOR MORE ON THESE TWO DIDS"
CLEAR
TEXT
        DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR
DI-M-1517 and DI-M-3407C - (Page 2 of 3):
LSAR data records D and D1 can be used to develop the
narrative and resource requirements portion of the operators
and maintenance instructions.  LSAR data records C and D1 can
be used to develop the maintenance allocation chart (MAC) and
tool equipment requirements list which forms a portion of the
maintenance manuals.  LSAR data records H and H1 can be used
to develop the listing portion of repair and special tool
lists (RPSTL) or IPBs.  When the requirement for a component
of end item list (COEIL), additional authorization list
(AAL1, basic issue items lists (BIIL) or expendable suppliers
and material list (EMSL) is sited by this DID the LSAR data
records H and H1 can be used to develop the lists.
ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE WITH THESE TWO DIDs"
CLEAR
TEXT
        DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR
DI-M-1517 and DI-M-3407C - (Page 3 of 3):
The LSA-015 and 019 reports can be used to develop the
narrative and resource requirements portion of operations and
maintenance instructions.  The MAC and tool and equipment
requirements list can be totally satisfied by the LSA-004 and
020 reports.  The listing portion of RPSTL's or IPBs can be
totally satisfied using the LSA-029, 030, and 031 reports.
The COEIL, AAL, BIIL, and ESML requirements can be satisfied
using the LSA-040 through 043 reports.
ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
                ****************
                *  GS6175B.PRG  *
                ****************

      CLEAR
      TEXT
          DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

      DI-S-6175B  Facility Design Concepts: Permits review and
      analysis of proposed solutions to facility trade offs based
      upon system facilities requirements and based further upon
      detailed system facility design criteria.  LSAR input data
      records B, D, E, F, and G inclusive, contain data elements
      necessary to satisfy the requirements of this DID.  The
      information can also be extracted from the various reports,
      in particular the LSA-012, and incorporated with the LSA-060
      report selected against the appropriate E, F, and G data
      records.

      ENDTEXT
      @22,1
      WAIT "PRESS ANY KEY TO CONTINUE"
      CLEAR
      RETURN


                ****************
                *  GE2143.PRG  *
                ****************

      CLEAR
      TEXT                                    .
          DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

      DI-E-2143, Computer Program Test Specification: Identifies
      and explains the basic method to be used in a test.  States
      the purpose of the test and identifies the software,
      hardware, and the system to be tested.  It also defines the
      scope of the test and the level and method of testing
      employed.  LSAR input data records C, D, and E inclusive,
      contain data elements which assist in satisfying the
      requirements of this DID.  Those data records, along with the
      LSA-060 report contain all the information to satisfy the
      requirements of this DID.

      ENDTEXT
      @22,1
      WAIT "PRESS ANY KEY TO CONTINUE"
      CLEAR
      RETURN
```

```
****************
*  GT2144.PRG  *
****************
```

CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-T-2144, Computer Program Test Procedures: Presents
detailed instructions for test execution and evaluation of
the results at each level of testing. Provides for the
quantitative results of test which are extracted from the
test themselves. LSAR data records C, D, D1, E, E1, and E2
provide the data necessary (except block diagrams/
schematics) to satisfy the requirements of this DID. LSA-060
report information can also be used to provide information
pertinent to this DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  GS30569.PRG  *
****************
```

CLEAR
TEXT
     DATA ITEM DESCRIPTIONS (DIDs) RELATED TO THE LSAR

DI-S-30569, Computer Resources Integrated Support Data
(CRISD): Is used to determine and identify responsibilities
for management and technical support of computer programs.
LSAR data records E and E1 contain data elements which can be
used to partially satisfy the requirements of this DID. The
LSA-060 report selected against the support equipment LCN can
also be used to partially satisfy this DID.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

Appendix G: LSA Report Programs

The purpose of this appendix is to show all LSA report programs used by the LSAR DSS. These programs provide the user with a short synopsis of what each LSA report can do and which LSAR data records it uses for input.

```
****************
*  LSA001.PRG  *
****************

* LSA-001 Report
* Direct Annual Maintenance Man-Hours by Skill Specialty Code
*    and Level of Maintenance
*
CLEAR
TEXT
LSA-001, Direct Annual Maintenance Man-hours by Skill
Specialty Code and Level of Maintenance: This is a report of
annual man-hour expenditures by maintenance levels and skill
specialty code (SSC). Man-hour totals are based on the number
of systems supported by level of maintenance. The number of
maintenance tasks used to develop the report are displayed
along with the percentage of tasks containing measured
man-hours and predicted man-hours.  The report should be used
to determine manpower requirements of the system or
equipment.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
****************
*  LSA002.PRG  *
****************
```

```
* LSA-002 Report
* Personnel and Skill Summary
*
CLEAR
TEXT
LSA-002, Personnel and Skill Summary:  This is a report of
the man-hours, by Skill Specialty Code (SSC), expended on
each maintenance task.  An evaluation of the skill specialty
and the requirement for training equipment is provided for
each task code. The report provides annual man-hours per item
per maintenance task and total man-hours per maintenance task
based on the number of systems supported and can be obtained
for a specific SSC and/or Skill Evaluation Code.  The report
should be used to determine the time required and number of
personnel (by SSC) to perform each task.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
****************
*  LSA003.PRG  *
****************
```

```
* LSA-003 Report
* Maintenance Summary
*
CLEAR
TEXT
LSA-003, MAINTENANCE SUMMARY:  This report compares the
current status of the system maintenance parameters with the
requirements recorded on the A Data Record.  The report may
be selected for any maintenance level or combination of
levels.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
****************
*  LSA004.PRG  *
****************

* LSA-004 Report
* Maintenance Allocation Summary
*
CLEAR
TEXT
LSA-004, MAINTENANCE ALLOCATION SUMMARY: Is a report of the
manhour allocations by Maintenance function and maintenance
level.  The report can be requested as either a draft
(reflects all maintenance functions allowed in the LSAR data
base) or a proof (formatted in accordance with figure 20,
MIL-M-63038 (TM), Manuals, Technical).

ENDTEXT
@22,1
WAIT
CLEAR
RETURN


****************
*  LSA005.PRG  *
****************

* LSA-005 Report
* Support Items Utilization Summary
*
CLEAR
TEXT
LSA-005, SUPPORT ITEM UTILIZATION SUMMARY: Is a report, by
item category code, of the use of the item by maintenance
level and LSA control number.  The report should be used to
justify the requirement for support equipment and determine
the quantity and distribution requirements.  The report
should also be used to determine recommended order quantities
of repair parts BASED on their total use.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
****************
*  LSA006.PRG  *
****************
```

```
* LSA-006 Report
* Critical Maintenance Task Summary
*
CLEAR
TEXT
LSA-006, CRITICAL MAINTENANCE TASK SUMMARY: This report
provides a list of all maintenance tasks which exceed a
specific value for task frequency, or elapsed time, or
man-hours, or annual man-hours.  The specific value(s)
exceeded is identified as critical criteria.  The report may
be selected for any maintenance level or combination of
levels and for scheduled or unscheduled maintenance.  The
report should be used to pinpoint problem areas and plan
maintenance for critical components.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
****************
*  LSA007.PRG  *
****************
```

```
* LSA-007 Report
* Support Equipment Requirements
*
CLEAR
TEXT
LSA-007, SUPPORT EQUIPMENT REQUIREMENTS: Is a report of all
support equipment (i.e., tools, test equipment, ect.) used by
skill specialty code (SSC) and level of maintenance.  The
report may be selected for any maintenance level or
combination of levels.  This report should be used to develop
tool kits for each skill specialty at each level of
maintenance.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
***************
*  LSA008.PRG  *
***************
```

```
* LSA-008 Report
* Support Items Validation Summary
*
CLEAR
TEXT
LSA-008, SUPPORT ITEMS VALIDATION SUMMARY: This summary
provides a listing of those support items (documented on the
DO7 records) required to support/perform the task of each
maintenance level.  The support items are categorized in the
following groups:

        Support/Test Equipment and Tools
        Spare and Repair Parts
        Other

This summary will be used to review support item requirements
for the maintenance task(s) involved and may be selected for
an entire system, specific LCN range, maintenance level or
Item Category Code (ICC).

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
***************
*  LSA009.PRG  *
***************
```

```
* LSA-009 Report
* Support Items List
*
CLEAR
TEXT
LSA-009, SUPPORT ITEMS LIST: This is a report by LSA control
number, manufacturers part number, and national stock number,
of all repair parts, tools and/or test equipment necessary to
support the system. The report may be selected for any item
category code or combination of item category codes or a
single or multiple provisioning technical documentation
selection code.  The report should be used to provide
information necessary to assist in performing provisioning.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
****************
*  LSA010.PRG  *
****************
```

```
* LSA-010 Report
* Parts Standardization Summary
*
CLEAR
TEXT
LSA-010, PARTS STANDARDIZATION SUMMARY: Is a report by
reference number of all spare and repair parts comprising the
system.  The report may be selected for any contractor
technical information code (CTIC) or CTIC combination and for
any acquisition method code (AMC) or AMC combination.  The
report can be used to assist in performance of the DOD
Replenishment Parts Breakout Program.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
****************
*  LSA011.PRG  *
****************
```

```
* LSA-011 Report
* Requirements for Special Training Device
*
CLEAR
TEXT LSA-011, REQUIREMENTS FOR SPECIAL TRAINING DEVICE: A
report of all operator or maintenance tasks which have been
identified as requiring a special training device.  The
report should be used to identify the requirements and
provide justification, for the acquisition of training
devices.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
****************
*  LSA012.PRG  *
****************

* LSA-012 Report
* Requirements of Facility
*
CLEAR
TEXT LSA-012, REQUIREMENTS FOR FACILITY: This is a report of
all maintenance tasks which have been identified as requiring
new or modified facilities.  At the option of the requiring
authority existing facilities may also be documented and
reported.  The report should be used to provide requirement
and justification for the construction of new facilities or
to determine additional work load at existing facilities.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN


****************
*  LSA013.PRG  *
****************

* LSA-013 Report
* Support Equipment Grouping Number Utilization Summary
*
CLEAR
TEXT
LSA-013, SUPPORT EQUIPMENT GROUPING NUMBER UTILIZATION
SUMMARY: Is a Report, by maintenance level and Support
Equipment Grouping Identification Number, of the maintenance
tasks which use the support equipment group.  The report may
be selected for any maintenance level or combination of
levels.  The report should be used to provide the
requirements, quantity, and justification for the acquisition
of support equipment.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
****************
*  LSA014.PRG  *
****************

* LSA-014 Report
* Training Task List
*
CLEAR
TEXT
LSA-014, TRAINING TASK LIST: Is a report by skill specialty
code (SSC) of rationale for training recommendations and
training location requirements necessary to perform a given
task.  The report should be used to recommend a task for
training and provide the basis for recommendation of the
training location of the task.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN


****************
*  LSA015.PRG  *
****************

* LSA-015 Report
* Sequential Task Description
*
CLEAR
TEXT
LSA-015, SEQUENTIAL TASK DESCRIPTION: This summary provides
the task description entered via the D02 record(s) for the
identified task(s). The summary may be requested to identify
all task descriptions applicable to the total system,
specific UOC, task identification level, specific SSC(s) or
those applicable to a specific maintenance level.  At the
requestor's option, the summary will include the description
of those tasks which are referenced (D03 records).  The
referenced task descriptions will appear in the proper
sequence of the task requested.  The summary will be used in
the preparation of maintenance manuals.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
****************
*  LSA016.PRG  *
****************

* LSA-016 Report
* Preliminary Maintenance Allocation Summary
*
CLEAR
TEXT
LSA-016, PRELIMINARY MAINTENANCE ALLOCATION SUMMARY: Is a
preliminary report of task allocation be maintenance function
and maintenance level.  The report should be used in
preparing draft maintenance publications.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN


****************
*  LSA017.PRG  *
****************

* LSA-017 Report
* Preliminary Maintenance Allocation Summary Tool Page
*
CLEAR
TEXT
LSA-017, PRELIMINARY MAINTENANCE ALLOCATION SUMMARY TOOL
PAGE: Is a preliminary report of tools and equipment required
by task function and maintenance level.  this report is used
in conjunction with the LSA-016 report, Preliminary
Maintenance Allocation Summary, to identify tools and
equipment to perform the maintenance functions.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
***************
*  LSA018.PRG  *
***************
```

```
* LSA-018 Report
* Visibility and Management of Operating and Support Cost
*       (VAMOSC) Summary
*
CLEAR
TEXT
LSA-018, VISIBILITY AND MANAGEMENT OF OPERATING AND SUPPORT
COST (VAMOSC) SUMMARY: A report of national stock number
(NSN) to work unit code (WUC) cross reference used as source
data to track component costs.  The report is used to
maintain the NSN/WUC cross reference dictionary for VAMOSC's
component support cost system.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
***************
*  LSA019.PRG  *
***************
```

```
* LSA-019 Report
* Maintenance Task Analysis Validation Summary
*
CLEAR
TEXT
LSA-019, MAINTENANCE TASK ANALYSIS VALIDATION SUMMARY: This
summary provides a listing of support items and skill
specialty requirements needed to perform maintenance tasks.
The report is designed to be used during physical teardown
logistics demonstration (PTLD) both to record data as a
result of the PTLD, and to review the results of the PTLD
against the LSAR data base.  The summary may be requested by
maintenance level and/or ICC(s).  The support items
identified in the LSAR data base to perform the identified
task are categorized in the same manner as described for the
LSA-008 summary.  There is a space available at the end of
each LCN for the reviewer to manually insert and describe
those support items not identified in the LSAR but found to
be required during the PTLD review.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
****************
*  LSA020.PRG  *
****************

* LSA-020 Report
* Tool and Test Equipment Requirements
*
CLEAR
TEXT
LSA-020, TOOL AND TEST EQUIPMENT REQUIREMENTS: Is a report of
tools and test equipment required by task function and
maintenance level. The report may be selected by item
category code or combination of item category codes.  The
report is used to identify tools and test equipment required
to perform the maintenance functions listed on the LSA-004,
Maintenance Allocation Summary.  The LSA-020 and LSA-004 are
cross indexed be the "Tool or Test Equipment Reference Code."

ENDTEXT
@22,1
WAIT
CLEAR
RETURN

****************
*  LSA021.PRG  *
****************

* LSA-021 Report
* Task Referencing List
*
CLEAR
TEXT
LSA-021, TASK REFERENCING LIST: This summary identifies those
tasks which reference other tasks and provides a cross
reference of same. Referencing common tasks is a viable means
of eliminating duplication of effort in the documentation of
tasks and task descriptions.  The summary provides a
management tool which can be used for review and control of
referencing/referenced task information.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
****************
*  LSA022.PRG  *
****************

* LSA-022 Report
* Referenced Task List
*
CLEAR
TEXT
LSA-022, REFERENCED TASK LIST: This summary is a companion to
the LSA-021 in that this summary provides a cross reference
listing of those tasks which have been referenced by other
tasks.  This summary, as with the LSA-021 summary, is to be
used as a management tool for review and control of
referencing/referenced task information.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN

****************
*  LSA023.PRG  *
****************

* LSA-023 Report
* Maintenance Plan Summary
*
CLEAR
TEXT
LSA-023, MAINTENANCE PLAN SUMMARY: This report consists of
four parts which may be selected together or individually.
Part I contains general information pertaining to the
system/item selected and the maintenance/support concept.
Part II contains the reliability, availability, and
maintenance characteristics of the system/item. This part may
be selected by LSA control number or work unit code for the
desired maintenance level.  Part III describes the preventive
and corrective maintenance action requirements. Corrective
tasks are determined be Task Interval Code values of "J",
"F", and "G".  Part IV contains a listing of required support
equipment and associated technical data by item category
code.  This part may be selected for any item category code
or combination of item category codes.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
****************
*  LSA024.PRG  *
****************
```

```
* LSA-024 Report
* Maintenance Plan
*
CLEAR
TEXT
LSA-024, MAINTENANCE PLAN: This report consists of three
parts which may be selected together or individually.  Part I
contains general considerations (Design Description,
Maintenance Plan Summary, and Maintenance Plan Rationale) for
the LSA control number selected. Part II describes the repair
capability required to support the LSA control number
selected and includes maintenance technical data for the LCN
selected and its lower indenture level repairable items. Part
III contains a list of the maintenance tasks by category
(preventive, servicing, and calibration) for the LSA control
number selected and its lower assembly repairable items.  The
report can be selected for any maintenance level by LCN down
to piece-part.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  LSA025.PRG  *
****************
```

```
* LSA-025 Report
* Packaging Requirements
*
CLEAR
TEXT
LSA-025, PACKAGING REQUIREMENTS: Is a report of the basic
data requirements for preservation and packing for common,
selective and special group items.  The report should be used
to provide adequate packing instructions for DOD users.  The
Unit Pack Cube is calculated by dividing the product of the
Unit Pack Size Length, Width, and Depth by 1728.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
***************
*  LSA026.PRG  *
***************

* LSA-026 REPORT
* PACKAGING DEVELOPMENTAL DATA
*
CLEAR
TEXT
LSA-026, PACKAGING DEVELOPMENTAL DATA: A report of the basic
item identification data required for packing and
preservation.  The report can be requested by a single or
multiple LSA control number, specific reference number or
usable on code.  The report can be use as a stand alone or in
conjunction with LSA-025 to provide adequate packaging
instructions for DOD users.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

***************
*  LSA027.PRG  *
***************

* LSA-027 REPORT
* FAILURE/MAINTENANCE RATE SUMMARY
*
CLEAR
TEXT
LSA-027, FAILURE/MAINTENANCE RATE SUMMARY: Is a report
identifying an item and annual operating requirements by LSA
control number and task code.  The report should be used to
provide information necessary to monitor failure rate,
failure mode and maintenance replacement rate.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
*****************
*  LSA028.PRG  *
*****************
```

```
* LSA-028 REPORT
* REFERENCE NUMBER/ADDITIONAL REFERENCE NUMBER CROSS
REFERENCE LIST
*
CLEAR
TEXT
LSA-028, REFERENCE NUMBER/ADDITIONAL REFERENCE NUMBER CROSS
REFERENCE LIST: This summary identifies those reference
numbers entered via the H01 record and cross references them
to the additional reference numbers input via the H03
record(s).  The summary provides ready reference to all
available sources of data (drawing specifications and
interchangeable numbers) which can identify the physical,
mechanical, and electrical characteristics of the item.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
*****************
*  LSA029.PRG  *
*****************
```

```
* LSA-029 REPORT
* REPAIR PARTS LIST
*
CLEAR
TEXT
LSA-029, REPAIR PARTS LIST: This summary provides a listing
of repair parts required to support an equipment and is
formatted in accordance with the parts listings requirements
of a repair parts manual (MIL-STD-335).  The list may be
requested as a draft report (printed on computer stock paper)
or a proof report (printed on plain bond 8 1/2 x 11 fanfold
microperforated printed paper). Normally, a draft is
requested to review file content relative to report
requirements. The draft can also be used during the
demonstration/evaluation testing of the equipment of which it
is supporting.  The proof will be forwarded for official
publication and distribution.  See LSA-030, Special Tools
List, for Section III requirements and the LSA-031, Cross
Reference Index, for Section IV requirements.
ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  LSA030.PRG  *
****************

* LSA-030 REPORT
* SPECIAL TOOLS LIST
*
CLEAR
TEXT
LSA-030, SPECIAL TOOLS LIST: This summary provides a listing
of those special tools required to support an equipment and
is formatted in accordance with the tools listing
requirements of a repair parts manual (MIL-STD-335).  Options
and use of this summary are identical to the LSA-029 summary
and will be used as a companion document to that report.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

****************
*  LSA031.PRG  *
****************

* LSA-031 REPORT
* PART NUMBER/NATIONAL STOCK NUMBER/REFERENCE DESIGNATOR
INDEX
*
CLEAR
TEXT
LSA-031, PART NUMBER/NATIONAL STOCK NUMBER/REFERENCE
DESIGNATOR INDEX: This summary provides the required cross
reference index(s) as required for an illustrated parts
breakout (IPB) manual.  Options and use of this summary are
identical to the LSA-029 or LSA-030 summary and will be used
as a companion document to these reports. The proof will be
printed on blank 8 1/2" x 11" paper.  The index(s) provides a
cross reference designation to figure/item numbers contained
in IPB Sections II and III (LSA-029 and LSA-030 reports).

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  LSA032.PRG  *
****************

* LSA-032 REPORT
* DEFENSE LOGISTICS SERVICES CENTER (DLSC) SUBMITTALS
*
CLEAR
TEXT
LSA-032, DEFENSE LOGISTICS SERVICES CENTER (DLSC) SUBMITTALS:
This summary provides a cross reference between reference
numbers selected for provisioning screening and the
submitter's control number which is assigned by the computer.
this list also depicts those reference numbers without an
FSCM.  This summary provides a valuable tool once the items
have been screened through DLSC files and the screening
results are received as the DLSC results are sequenced by
submitter's control number, not by reference number.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

****************
*  LSA034.PRG  *
****************

* LSA-034 REPORT
* STOCKAGE LIST TYPE FOUR
*
CLEAR
TEXT
LSA-034, STOCKAGE LIST TYPE FOUR: This summary provides a
listing of support items required for an equipment.  The list
is produced as a draft report or a proof report printed on
unlined computer paper.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  LSA036.PRG  *
****************

* LSA-036 REPORT
* PROVISIONING REQUIREMENTS
*
CLEAR
TEXT
LSA-036, PROVISIONING REQUIREMENTS: This is a summary of
those data recorded on the H and H1 data records identified
as provisioning requirements.  The summary contains that data
required for review at various provisioning conferences
(e.g., LLTI conference, provisioning conference ect.) and is
used in the selection procedures to identify repair parts
requirements in support of the equipment to be fielded. The
summary will satisfy the deliverables cited in MIL-STD-1561,
based on specific parameters entered on the selection card.
Changed data can only be processed in LSA-036 by establishing
a Provisioning Baseline File (PBF) for delivered Provisioning
Lists (PL).

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
@22,1
CLEAR
RETURN

                        ****************
                        *  LSA041.PRG  *
                        ****************

* LSA-041 REPORT
* BASIC ISSUE ITEMS (BII) LIST
*
CLEAR
TEXT
LSA-041, BASIC ISSUE ITEMS (BII) LIST: This summary provides
a listing of those minimum essential items required to place
an equipment in operation, to operate it, and to perform
emergency repairs.  The items are identified by code A
entered in the first position and code A entered in the
second position of the AIC of the H03 record.  The BII is
required as an appendix to the operator's manual or in a
combined operator's and maintenance manual (i.e., a-12, -13,
or -14).  The items are listed in alphabetic sequence.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
                    ****************
                    *  LSA042.PRG  *
                    ****************

* LSA-042 REPORT
* ADDITIONAL AUTHORIZATION LIST (AAL)
*
CLEAR
TEXT
LSA-042, ADDITIONAL AUTHORIZATION LIST (AAL): This summary
provides a listing of those items which are not issued with
an end item and are not listed/identified on the end item
engineering drawings as part of the end item configuration.
The items are identified by code A in the first position and
codes E or F entered in the second position of the AIC of the
H03 record.  The AAL is required as an appendix to the
operator's manual or in a combined operator's and maintenance
manual (i.e., -12, -13, or -14).  The items are listed in
alphabetic sequence.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

                    ****************
                    *  LSA043.PRG  *
                    ****************

* LSA-043 REPORT
* EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST (ESML)
*
CLEAR
TEXT
LSA-043, EXPENDABLE/DURABLE SUPPLIES AND MATERIAL LIST
(ESML): This summary provides a listing of those
expendable/durable supplies and material required to operate
and maintain the equipment.  The items are identified by code
A in the first position and code D in the second position of
the AIC of the H03 record.  The ESML is required as an
appendix to the operator's manual or in a combined operator's
and maintenance manual (i.e., -12, -13, or -14).  The items
are listed in alphabetic sequence.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
                  ****************
                  *  LSA045.PRG  *
                  ****************

* LSA-045 REPORT
* STOCKAGE LIST TYPE THREE
*
CLEAR
TEXT
LSA-045, STOCKAGE LIST TYPE THREE: This summary provides a
listing of supply system and using unit responsible items;
principal end items; and collateral equipment identified be
entries in the Allowance Item Code.  The list can be prepared
as a draft report on computer stock paper or as a proof
report on plain bond 8  1/2 by 11 inch fanfold
microperforated printer paper.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

                  ****************
                  *  LSA050.PRG  *
                  ****************

* LSA-050 REPORT
* RELIABILITY CENTERED MAINTENANCE (RCM) SUMMARY
*
CLEAR
TEXT
LSA-050, RELIABILITY CENTERED MAINTENANCE (RCM; SUMMARY: Is a
report of RCM analysis conducted on repairable items of a
system by disposition, task code, and safety hazard severity
code.  The report may be selected by single or multiple
safety hazard severity codes. The report should be used to
establish the reliability of an item, the applicability and
the effectiveness of preventive maintenance tasks.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  LSA051.PRG  *
****************
```

```
* LSA-051 REPORT
* RELIABILITY SUMMARY-REDESIGN
*
CLEAR
TEXT
LSA-051, RELIABILITY SUMMARY-REDESIGN: Reports the narrative
description for an item on which redesign is proposed.  The
report should be used to review potential candidates for
redesign.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  LSA052.PRG  *
****************
```

```
* LSA-052 REPORT
* CRITICALITY ANALYSIS SUMMARY
*
CLEAR
TEXT
LSA-052, CRITICALITY ANALYSIS SUMMARY: Is a listing, in
descending order, of each item's computed criticality or
failure mode criticality number by safety hazard severity
code.  The report may be selected for any safety hazard
severity code or combination of codes and failure mode
criticality numbers greater than a selected value. The report
should be used to identify candidates for RCM analysis or
design reviews.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  LSA053.PRG  *
****************

* LSA-053 REPORT
* MAINTAINABILITY ANALYSIS SUMMARY - LEVEL OF REPAIR
*
CLEAR
TEXT
LSA-053, MAINTAINABILITY ANALYSIS SUMMARY - LEVEL OF REPAIR:
Is a report of projected workload resulting from the failure
modes effects and criticality analysis.  The report will
detail the level of repair to be performed on an item for all
maintenance levels. The report should be used to review
reliability and maintainability factors for the repair time
of an item.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


****************
*  LSA054.PRG  *
****************

* LSA-054 REPORT
* FAILURE MODE ANALYSIS SUMMARY
*
CLEAR
TEXT
LSA-054, FAILURE MODE ANALYSIS SUMMARY: Reports failure modes
and failure rates of a reparable item.  The report should be
used to identify failure modes which impact item criticality
number and safety hazard severity code assignment.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  LSA055.PRG  *
****************

* LSA-055 REPORT
* FAILURE MODE DETECTION SUMMARY
*
CLEAR
TEXT
LSA-055, FAILURE MODE DETECTION SUMMARY: Is a report of
narrative information for the failure detection of an item.
The report should be used to develop and describe the
operator and maintenance tasks required to diagnose and
correct system malfunctions/failures and as an aid in
preparation of technical  manuals.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


****************
*  LSA060.PRG  *
****************

* LSA-060 Report
* LSA CONTROL NUMBER MASTER FILE
*
CLEAR
TEXT
LSA-060, LSA CONTROL NUMBER MASTER FILE: This summary
provides a listing of the data contained on the LCN master
file (A, B, B1, B2, C, D, D1, E, E1, E2, F, G, and J records
and D03 cards).  The report may be requested as an 80-80
listing in card/record image or can be requested to include
data element headers for each record.  The report with data
element headers will enhance the use of the report as it can
be used as a ready reference for keypunch and/or CRT updates
to the master file.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
               ****************
               *  LSA061.PRG  *
               ****************

* LSA-061 REPORT
* PARTS MASTER FILE
*
CLEAR
TEXT
LSA-061, PARTS MASTER FILE: This summary provides a listing
of the data contained on the parts master file (H and H!
records).  The report may be requested as an 80-80 listing in
card/record image or can be requested to include data element
headers for each record. The report with data element headers
will enhance the use of the report as it can be used as a
ready reference for keypunch and/or CRT updates to the master
file.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

               ****************
               *  LSA070.PRG  *
               ****************

* LSA-070 REPORT
* SUPPORT EQUIPMENT RECOMMENDATION DATA (SERD)
*
CLEAR
TEXT
LSA-070, SUPPORT EQUIPMENT RECOMMENDATION DATA (SERD): Is a
report describing requirements for and of support equipment
for a given end item.  This report will include
administrative data, description of equipments, allocation
data, design data and ILS requirements.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
                    ****************
                    *  LSA072.PRG  *
                    ****************

* LSA-072 REPORT
* TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE)
REQUIREMENTS
*        SUMMARY
CLEAR
TEXT
LSA-072, TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE)
REQUIREMENTS SUMMARY: This report provides a summary of TMDE
requirements and technical descriptions to verify the
applicability of the test equipment for use on the weapon
system/end item.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

                    ****************
                    *  LSA074.PRG  *
                    ****************

* LSA-074 REPORT
* SUPPORT EQUIPMENT TOOL LIST
*
CLEAR
TEXT
LSA-074 SUPPORT EQUIPMENT TOOL LIST: This summary provides a
listing of all stock listed, new, modified, or developmental
tools required.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  LSA075.PRG  *
****************

* LSA-075 REPORT
* LSAR MANPOWER PERSONNEL INTEGRATION (MANPRINT) SUMMARY
*
CLEAR
TEXT
LSA-075, LSAR MANPOWER PERSONNEL INTEGRATION (MANPRINT)
SUMMARY: This summary provides a depiction of critical
Failure Modes and Effects Criticality Analysis Data, task
summary information and new/modified skill requirements
needed as a baseline for performing hardware - manpower
requirements analysis.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

****************
*  LSA077.PRG  *
****************

* LSA-077 REPORT
* DEPOT MAINTENANCE INTERSERVICE DATA SUMMARY
*
CLEAR
TEXT
LSA-077 DEPOT MAINTENANCE INTERSERVICE DATA SUMMARY: This
report contains three parts.  Part I contains all repairable
items and the applicable tasks which are performed at depot.
Part II, Section A, provides a listing of all support
equipment.  Part II, Section B, contains the new or modified
depot facilities requirements.  Part III depicts depot
support equipment and associated test program sets, and the
tasks requiring these support items.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
            ****************
            *  LSA080.PRG  *
            ****************

* LSA-080 REPORT
* BILL OF MATERIALS
*
CLEAR
TEXT
LSA-080, BILL OF MATERIALS: Part I (Parts List) identifies
each assembly on the parts master file (within the specified
parameters of the select card) and provides a listing of the
items related to or contained in the assembly.  The summary
provides a vehicle for comparing file content against the
assembly drawings to assure items required for support of the
assembly are contained in the parts master file.  Part II
(Error Listing) will be automatically produced when LSA-080
is requested.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

            ****************
            *  LSA100.PRG  *
            ****************

* LSA-100 REPORT
* CHRONOLOG INFORMATION
*
CLEAR
TEXT
LSA-100, CHRONOLOG INFORMATION: A system monitoring report of
the current LSAR cycle activity.  Included in the report is
the master record and transaction counts, programs and all
processes executed during the current cycle.  The report is
produced automatically when activity occurs in the system.

ENDTEXT
@22,1
WAIT "PRESS ANY OLD KEY TO CONTINUE"
CLEAR
RETURN
```

```
                ****************
                *  LSA101.PRG  *
                ****************

*  LSA-101 REPORT
*  TRANSACTION EDIT RESULTS
*
CLEAR
TEXT
LSA-101, TRANSACTION EDIT RESULTS - SELECTION CARDS: This
summary provides a listing of every select card submitted in
a given cycle. The listing depicts errors within the select
card with error messages, those transactions found to be
error free, and those transactions which passed the edit
criteria but could not be processed due to incompatibility
between select card parameters and file content.  The report
is produced by the LSAR system for any cycle containing
select transactions.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

                ****************
                *  LSA102.PRG  *
                ****************

*  LSA-102 REPORT
*  TRANSACTION EDIT RESULTS - LCN MASTER
*
CLEAR
TEXT
LSA-102, TRANSACTION EDIT RESULTS - LCN MASTER: This summary
provides a listing of A, B, B1, B2, C, D ( cards D02 and D03)
and D1 records processed in a given cycle.  The records are
listed as record image and depict their disposition (valid,
error with error message, and rejected with reject reason).
The summary is listed in LCN/task code/record type sequence
and is an automatic output of the system when the above
records are input for processing.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  LSA103.PRG  *
****************

* LSA-103 REPORT
* TRANSACTION EDIT RESULTS, PARTS MASTER
*
CLEAR
TEXT
LSA-103, TRANSACTION EDIT RESULTS, PARTS MASTER: This summary
provides a listing of H and H1 records processed in a given
cycle. The records are listed as record image and depict
their disposition (valid, error with error message, and
rejected with rejection reason).  The summary is listed in
reference number/LCN/record type sequence and is an automatic
output of the system when the above records are input for
processing.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN


****************
*  LSA104.PRG  *
****************

* LSA-104 REPORT
* TRANSACTION EDIT RESULTS - NARRATIVE MASTER
*
CLEAR
TEXT
LSA-104, TRANSACTION EDIT RESULTS - NARRATIVE MASTER: This is
a report of all D02 card submittals and their disposition.
The report lists each card in exact input image and, if in
error, will provide an error message defining the reason for
rejection.  The report is produced automatically by input of
a C06 or D06 card.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  LSA105.PRG  *
****************
```

```
* LSA-105 REPORT
* KEY FIELD CHANGE TRANSACTIONS
*
CLEAR
TEXT
LSA-105, KEY FIELD CHANGE TRANSACTIONS: Is a report of the
input to the key field change system with the edit results.
The report also lists the old and new record results of
processing against the master files.  The report is
automatically produced.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  LSA106.PRG  *
****************
```

```
* LSA 106 REPORT
* REFERENCE NUMBER DISCREPANCY LIST
*
CLEAR
TEXT
LSA-106, REFERENCE NUMBER DISCREPANCY LIST: Reports all part
numbers input to the LCN master file which cannot be matched
to part numbers on the parts master file.  The report
provides a list of part numbered items which have been
identified by the maintenance task analysis but have not been
identified by the provisioning process (i.e., data record H).
Also includes parts listed in both files but have unmatched
ICC's or parts application when LCN structure is entered on
the select card.  The report is produced only by request.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
****************
*  LSA107.PRG  *
****************

* LSA-107 REPORT
* LCN-TASK IDENTIFICATION CODE CROSS REFERENCE LIST
*
CLEAR
TEXT
LSA-107, LCN-TASK IDENTIFICATION CODE CROSS REFERENCE LIST:
The summary provides a cross reference between LCN/task code
and the computer assigned task identifier code (TASK ID CODE)
and will report if the sequential task description has been
submitted for that TASK ID CODE.  As each task is assigned
and identified by input of a C06 record, the LSAR system
assigns a unique TASK ID CODE for that LCN/task.  This code
must be used to establish or update the sequential task
description.  The summary is automatically produced as C06
records are processed or it may be requested by entering the
applicable select card.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
                ****************
                *  LSA108.PRG  *
                ****************

* LSA-108 REPORT
* CRITICAL DATA CHANGES
*
CLEAR
TEXT
LSA-108, CRITICAL DATA CHANGES: This report lists the input
of any card containing a change to a data element considered
to be critical. The report lists card input image, data
element changed, and the old and new value for the changed
data.  The report is produced automatically when a card is
input to change a critical data element.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY FOR LISTING OF CRITICAL DATA ELEMENTS"
CLEAR
* LSA-108, Critical Data Changes    Page 2
*
CLEAR
TEXT
The critical data elements are listed as follows:

        Administrative and Logistics Delay Time (ALDT)
        Annual Operating Requirements (AOR)
        Essentiality Code (EC)
        Federal Supply Code for Manufacturers (FSCM)
        Maintenance Replacement Rate I (MRRI)
        Mean Elapsed Time
        Mean Time Between Failures (MTBF)
        Mean Time to Repair (MTTR)
        Skill Specialty Code (SSC)
        Skill Specialty Evaluation Code (SS EVAL)
        Source, Maintenance, and Recoverability Code (SMR)
        Task Frequency

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
                ****************
                *  LSA109.PRG  *
                ****************

* LSA-109 REPORT
* UNIDENTIFIED TRANSACTIONS
*
CLEAR
TEXT
LSA-109, UNIDENTIFIED TRANSACTIONS: Is a listing of input
transactions which cannot be identified for any system
process (i.e., key punch error, erroneous formatting, ect.).
The report is automatically produced.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

                ****************
                *  LSA150.PRG  *
                ****************

* LSA-150 REPORT
* PROVISIONING ERROR LIST
*
CLEAR
TEXT
LSA-150, PROVISIONING ERROR LIST: This summary is
automatically produced when an LSA-036, Provisioning
Requirements, is requested. The summary lists those items
containing errors which would degrade the provisioning list
and will provide an error code for the data in error.  This
list must be reviewed by the user to ascertain what
corrections are needed to update the parts master file for
subsequent updates(s) to the provisioning list.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN
```

```
***************
*  LSA151.PRG  *
***************
```

* LSA-151 REPORT
* PROVISIONING PARTS LIST INDEX (PPLI)
*
CLEAR
TEXT
LSA-151, PROVISIONING PARTS LIST INDEX (PPLI): This summary
provides a cross reference between reference numbers and the
applicable PLISN of the provisioning list. It provides a
ready reference of usage and location within the provisioning
list for a given reference number. The report can be
generated in reference number, LCN or PLISN sequence.
Additional data which further describes the item at its usage
level(s) are provided for the user's information (i.e., item
name, quantities, SMR code, ect.).

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
***************
*  LSA152.PRG  *
***************
```

* LSA-152 REPORT
* PLISN ASSIGNMENT/REASSIGNMENT
*
CLEAR
TEXT
LSA-152, PLISN ASSIGNMENT/REASSIGNMENT: This summary provides
a listing, reference number, of PLISN, Indenture Code, NHA
PLISN, and PRIOR ITEM PLISN, assigned by the LSAR system
based on parameters of the assignment select card. The
summary is automatically produced and will depict the file
content before and after the assignments or reassignments are
made.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  LSA154.PRG  *
****************
```

* LSA-154 REPORT
* PROVISIONING PARTS BREAKOUT SUMMARY
*
CLEAR
TEXT
LSA-154, PROVISIONING PARTS BREAKOUT SUMMARY: This report
provides a one page summary of each Reference Number.
Included on the report are critical pricing and breakout
program information as well as selected parts application
data. The report may be selected by Contractor Technical
Information Codes, Source Codes, or Reference Number.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

```
****************
*  LSA155.PRG  *
****************
```

* LSA-155 REPORT
* RECOMMENDED SPARE PARTS LIST FOR SPARES ACQUISITION
INTEGRATED
*   WITH PRODUCTION (SAIP)
* THIS IS THE LAST LSA REPORT DESCRIPTION FILE
*
CLEAR
TEXT
LSA-155, RECOMMENDED SPARE PARTS LIST FOR SPARES ACQUISITION
INTEGRATED WITH PRODUCTION (SAIP): Recommended Spare Parts
List for Spares Acquisition Integrated with Production
(SAIP). This summary provides the data required for a SAIP
list as specified by MIL-STD-1561.

ENDTEXT
@22,1
WAIT "PRESS ANY KEY TO CONTINUE"
CLEAR
RETURN

Appendix H: LSAR Data Record Description Programs

The purpose of this appendix is to show all LSAR data record description programs used by the LSAR DSS. These programs give a description of each data record, A-J, and can be accessed through the menu (MENU.PRG) displayed at the bottom of each tailoring question screen in the DSS.

```
***************
*  ARECD.PRG  *
***************
```

```
* Data Record A
* Operation and Maintenance Requirements
*
CLEAR
TEXT
Data Record A consolidates information related to the planned
operation of the system, its maintenance and operational
environment, and allocation of system maintenance
requirements.  The A Record should be completed as soon as
possible but must be available prior to or concurrent with
initiation of LSA task 301. This record can be furnished
directly by the Government or taken from government provided
plans and specifications.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
****************
*  BRECD.PRG   *
****************
```
```
* Data Record B
* Item Reliability and Maintainability (R&M) Characteristics
CLEAR
TEXT
Data Record B describes the function of each item under
analysis, outlines the maintenance concept to be utilized and
identifies any design conditions/considerations imposed on
the system.  In addition, the B Record summarizes R&M and
related availability characteristics resulting from the
Failure Modes, Effects, and Criticality Analyses (FMECA) and
maintainability analysis documented on the B1 and B2 records;
provides for evaluation of logistics considerations impacting
R&M; documents results of the application of Reliability
Centered Maintenance (RCM) logic; and provides for narrative
related to any potential system redesign.  The B record
should be completed as a result of LSA Subtask 301 2.4
(Operation and Maintenance Tasks).  It must be available
prior to the initiation of LSA Task 401 (Task Analysis).
ENDTEXT
@22,1
WAIT
CLEAR
```
```
****************
*  B1RECD.PRG  *
****************
```
```
* Data Record B1
* Failure Modes and Effects Analysis
CLEAR
TEXT
Data Record B1 is to accommodate the Failure Modes and
Effects Analysis (FMEA) as described by Task 101 of
MIL-STD-1629.  The FMEA documents the effects of an item
failure upon system operations and is used to classify each
potential failure according to the severity of those effects.
The B1 Record will also accommodate the Damage Mode and
Effects Analysis to be utilized for survivability and
vulnerability assessments as described in Task 104 of
MIL-STD-1629. The B1 record should be completed as a result
of LSA Subtask 301.2.4.  When the FMEA requirements of this
subtask are included as part of the reliability program,
coordination of the interfaces with the LSA program becomes a
critical management function.  The FMEA must be integrated
with the LSA program requirements to ensure timely
availability of the FMEA results as inputs to subsequent LSA
tasks.
ENDTEXT
@22,1
WAIT
CLEAR
```

```
***************
*  B2RECD.PRG  *
***************

* Data Record B2
* Criticality and Maintainability Analysis
*
CLEAR
TEXT
Data Record B2 is designed to accommodate the criticality and
maintainability analyses as described in Tasks 102 and 103 of
MIL-STD-1629.  The analyses are predicted upon the FMEA
information recorded on the B1 Data Record.  The purpose of
the criticality analysis is to rank each identified failure
according to the combined influence of severity
classification and the failure probability of occurrence.
The maintenance task analysis to be documented on the C, D,
and D1 Data Records.  The B2 record is completed concurrent
with of subsequent to the FMECA of LSA Subtask 301.2.4; and
prior to the detailed analysis of LSA Task 401.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN

***************
*  CRECD.PRG   *
***************

* Data Record C
* Operation and Maintenance Task Summary
*              .
CLEAR
TEXT
The C Data Record is used to summarize the operation and
maintenance tasks identified for each repairable assembly.
It also incl.les any requirement for facilities, training
equipment, tools and support equipment.  The detailed
analysis of each task identified on the C Data Record is
documented on Data Record D.  The task identifications are
initially developed from the FMECA and RCM data recorded on
the B and B1 records.  As a minimum, a C Record will be
prepared be the contractor for each modified B Data Record
Item. Tasks are modified or expanded as the design progresses
and the maintenance task analysis is developed.
ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

146

```
***************
*  DRECD.PRG   *
***************

* Data Record D
* Operation and Maintenance Task Analysis
*
CLEAR
TEXT
The D Data Record provides a detailed step-by-step narrative
description of how the tasks identified on Data Record C are
to be performed, specific skill specialty requirements for
each step and applicable task times are also included.  A D
record is prepared for each task identified on the C Data
Record.  Results of LSA tasks 205 and 301 are required as
input to LSA task 401 and for completion of Data Record D.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN

***************
*  D1RECD.PRG  *
***************

* Data Record D1
* Personnel and Support Requirements
*
CLEAR
TEXT
Data Record D1 identifies the training, personnel, support
equipment, and supply support required to accomplish each
task described on the D Data Record.  A D1 Record is required
for each task identified on the C Data Record and described
by a D Record. Data Record D1 is completed as a result of LSA
Subtask 401.2.1.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
               ***************
               *  ERECD.PRG  *
               ***************

* Data Record E
* Support Equipment and Training Material Description
*      and Justification
*
CLEAR
TEXT
Data Record E is structured to consolidate the pertinent
information related to support equipment, peculiar tools, or
training equipment required for performance of operation and
maintenance tasks indicated on the C and D Records.  These
data include identification of: all tasks specifying
functions to be performed which require the support/test or
training equipment being described; and the specific unit(s)
in the system which requires the support/test equipment,
i.e., the Unit Under Test (UUT).  The E records have been
expanded to provide data elements required for preparation of
SERDs.  The evaluation criteria and tradeoff results from LSA
Subtasks 303.2.6 and 303.2.8 should be available for input to
Subtask 401.2.3 (New/Critical Support Resources).

ENDTEXT
@22,1
WAIT
CLEAR
RETURN

               ****************
               *  E1RECD.PRG  *
               ****************

* Data Record E1
* Support Equipment and Training Material Description
*       and Justification Continued
*
CLEAR
TEXT
Data Record E1 is structured to continue the description
initiated on Data Record E1 and to provide justification for
the support equipment identified as fulfilling the needs of
the UUT described on Data Record E2.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
*****************
*  E2RECD.PRG   *
*****************

* Data Record E2
* Unit Under Test Description and Justification
*
CLEAR
TEXT
Data Record E2 identifies the Unit Under Test (UUT), the
parameters to be measured for the UUT, and the applicable
Test Program Sets (TPS) required to test that UUT with the
support/test equipment identified on Data Records E and E1.
A separate E2 record is required for each UUT that will be
tested using the support/test equipment identified.  The E2
Record is prepared as a result of LSA Subtask 401.2.3
(New/Critical Support Resources).

ENDTEXT
@22,1
WAIT
CLEAR
RETURN

*****************
*  FRECD.PRG    *
*****************

* Data Record F
* Facility Description and Justification
*
CLEAR
TEXT
The F Record provides the means to identify special, new or
modified facilities.  It provides a detailed technical
description of any facility requirements indicated on the C
Data Record.  Each requirement for new or modified facilities
identified during task analysis creates a need for the F
record. The F Data Record is generally prepared as a result
of LSA Subtask 401.2.3 (New/Critical Support Resources).

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
***************
*  GRECD.PRG  *
***************
```

```
* Data Record G
* Skill Evaluation and Justification
*
CLEAR
TEXT
The G Record is used to describe and Justify any new or
modified personnel skills required to support the system.  A
separate G Data Record is required for each new/modified
personnel skill identified as a result of the training
analysis documented on the Dl Data Record.  The G Record is
prepared as a result of LSA Subtasks 401.2.3 and 401.2.4.

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
***************
*  HRECD.PRG  *
***************
```

```
* Data Record H
* Support Items Identification
*
CLEAR
TEXT
Data Record H is designed to capture static parts data which
is not dependent upon the application of the part.  This
information includes provisioning screening results, multiple
unit prices based on lot sizes, packaging data and common
maintenance data.  An H Record is prepared for each item
which is applicable to initial provisioning.  The H Data
Record is generally prepared as a result of LSA Subtask
401.2.8 (Provisioning Requirements.)

ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
****************
*  H1RECD PRG  *
****************
```

```
* Data Record H1
* Support Items Identification (Application Related)
*
CLEAR
TEXT
```

The H1 Data Record is structured to capture parts data
related to each application of the items identified by the H
Data Record. This data record includes information which is
dependent upon the specific application of the part (e.g.
next higher assembly (NHA), source, maintenance and
recoverability (SMR) code.) An H1 Data Record is prepared
for each application of an item identified on an H Data
Record, i.e., each use of the item requiring a unique LSA
Control Number (LCN). Data Record H1 is generally prepared
as a result of LSA Subtask 401.2.8.

```
ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

```
***************
*  JRECD.PRG  *
***************
```

```
* Data Record J
* Transportability Engineering Characteristics
*
CLEAR                            *
TEXT
```

Data Record J is designed to capture the transportability
engineering requirements of an end item. It is prepared for
the end item in its shipping configuration. When the end
item is sectionalized for transport, a Data Record J is
completed for each section of the end item. It may also be
completed for critical subcomponents. The J Record is
generally prepared as a result of LSA Subtask 401.2.7
(Transportability Analysis.)

```
ENDTEXT
@22,1
WAIT
CLEAR
RETURN
```

Appendix I: <u>LSAR</u> <u>DSS</u> <u>Example</u> <u>Output</u> <u>Report</u>

This is an example of an output report available in the print option of LSAR DSS. PRINT.PRG gives the user three different types of reports: 1) all drivers, 2) only selected drivers, and 3) only UNSURE drivers.

Logistics Drivers Interfacing with LSAR A Record, Operation and Maintenance Requirement

Driver	Required	Comments
TASK 205.2.2	YES	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 205.2.3	UNSURE	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 205.2.5	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
MIL-STD-470	YES	LSA-019, 023, 051, 053, and 055 output summaries may provide information pertinent to system maintainability considerations. Supporting information on the LSA-001 through 015 output summaries may also be useful.
MIL-STD-785	YES	LSA-023, 051, 052, 054, and 055 reports can provide a summarization of reliability information.
DI-R-7081	YES	A review of the LSA report summaries should be made to determine which ones can provide source data applicable to individual reliability models employed.
DI-L-2085A	NO	The LSA-060 and 061 master file report listings can be used to obtain the source data required by

this DID.

DI-R-3549A	NO	The LSA-060 and 061 master file report listings can be used to obtain the source data required by this DID.
DI-H-7068	NO	LSA-001 - 009, 011-015, 019, and 023 automated outputs all provide data applicable to the requirements of this DID.
DI-R-7095	NO	LSA-023, 051, 052, 054, and 055 reports can provide automated summarization of reliability information.

Logistics Drivers Interfacing with LSAR B Record,
Item Reliability and Maintainability Characteristics

Driver	Required	Comments
TASK 205.2.2	YES	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 205.2.3	UNSURE	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 205.2.5	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 301.2.4.1	NC	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 301.2.4.2	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 301.2.4.3	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 301.2.5	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 401.2.9	NO	Program requirements determine record's applicability.
TASK 401.2.10	NO	Required ILS output products determine record's applicability.
TASK 401.2.11	NO	LSAR structure determines record's applicability.
TASK 501.2.3	NO	Program requirements determine record's applicability.
MIL-STD-470	YES	LSA-019, 023, 051, 053, and 055 output summaries may provide information pertinent to system maintainability considerations. Supporting information on the

		LSA-001 through 015 output summaries may also be useful.
MIL-STD-785	YES	LSA-023, 051, 052, 054, and 055 reports can provide a summarization of reliability information.
MIL-STD-1629	YES	This data record has been designed to be consistent with the worksheet formats and tasks described in MIL-STD-1629.
MIL-STD-882	UNSURE	LSA-050, 052, and 054 can be used to obtain safety hazard severity codes and the FMECA data to support the System Safety Program.
DI-R-7108	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-R-7109	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-R-7081	YES	A review of the LSA report summaries should be made to determine which ones can provide source data applicable to individual reliability models employed.
DI-R-7082	YES	The following LSA reports may apply: 052 and 054.
DI-R-7085A	NO	LSA-060 summary, B record option (FMECA) can be used to produce a standard output report to satisfy this DID.
DI-S-30554A	NO	The following LSA reports may be useful in providing summarized data: 023 and 015.
DI-L-2085A	NO	The LSA-060 and 061 master file report listings can be used to obtain the source data required by this DID.
DI-R-3549A	NO	The LSA-060 and 061 master file report listings can be used to

		obtain the source data required by this DID.
DI-H-7048	NO	The following LSA reports may apply: 050, 052, and 054.
DI-L-7165	NO	Use the LSA-024 summary to satisfy the requirements of this DID.
DI-S-6169	NO	The LSA-060 and 061 master file reports contain all of the data necessary to support development of an ORLA report.
DI-H-7057	NO	The following LSA reports may provide supportive information: 050, 051, 052, 053, 054, 055.
DI-H-7068	NO	LSA-001 - 009, 011-015, 019, and 023 automated outputs all provide data applicable to the requirements of this DID.
DI-H-3258	NO	Use the LSA-001, 002, 003, 005, 006, 007, 011, 012, 013, 014, and 023 reports to provide training support data.
DI-S-6174B	NO	Extract available LSAR data from various reports, in particular the LSA-012, and incorporate with non-automated input data sheets E, E1, F, and G.
DI-S-6175B	NO	Extract available LSAR data from the various reports, in particular the LSA-012, and incorporate with LSA-060 report selected against the appropriate E, F, and G records.
DI-R-7095	NO	LSA-023, 051, 052, 054, and 055 reports can provide automated summarization of reliability information.

Logistics Drivers Interfacing with LSAR B1 Record, Failure Modes and Effects Analysis

Driver	Required	Comments
TASK 301.2.4.1	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 301.2.4.2	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
MIL-STD-470	YES	LSA-019, 023, 051, 053, and 055 output summaries may provide information pertinent to system maintainability considerations. Supporting information on the LSA-001 through 015 output summaries may also be useful.
MIL-STD-785	YES	LSA-023, 051, 052, 054, and 055 reports can provide a summarization of reliability information.
MIL-STD-1629	YES	This data record has been designed to be consistent with the worksheet formats and tasks described in MIL-STD-1629.
MIL-STD-882	UNSURE	LSA-050, 052, and 054 can be used to obtain safety hazard severity codes and the FMECA data to support the System Safety Program.
DI-R-7108	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-R-7109	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-R-7081	YES	A review of the LSA report summaries should be made to determine which ones can provide source data applicable to individual reliability models employed.

DI-R-7082	YES	The following LSA reports may apply: 052 and 054.
DI-R-7085A	NO	LSA-060 summary, B record option (FMECA) can be used to produce a standard output report to satisfy this DID.
DI-L-2085A	NO	The LSA-060 and 061 master file report listings can be used to obtain the source data required by this DID.
DI-R-3549A	NO	The LSA-060 and 061 master file report listings can be used to obtain the source data required by this DID.
DI-H-7048	NO	The following LSA reports may apply: 050, 052, and 054.
DI-S-6169	NO	The LSA-060 and 061 master file reports contain all of the data necessary to support development of an ORLA report.
DI-H-7057	NO	The following LSA reports may provide supportive information: 050, 051, 052, 053, 054, 055.
DI-H-7068	NO	LSA-001 - 009, 011-015, 019, and 023 automated outputs all provide data applicable to the requirements of this DID.
DI-S-6175B	NO	Extract available LSAR data from the various reports, in particular the LSA-012, and incorporate with LSA-060 report selected against the appropriate E, F, and G records.
DI-R-7095	NO	LSA-023, 051, 052, 054, and 055 reports can provide automated summarization of reliability information.

Logistics Drivers Interfacing with LSAR B2 Record, Criticality and Maintainability Analysis

Driver	Required	Comments
TASK 301.2.4.1	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 301.2.4.2	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
MIL-STD-470	YES	LSA-019, 023, 051, 053, and 055 output summaries may provide information pertinent to system maintainability considerations. Supporting information on the LSA-001 through 015 output summaries may also be useful.
MIL-STD-785	YES	LSA-023, 051, 052, 054, and 055 reports can provide a summarization of reliability information.
MIL-STD-1629	YES	This data record has been designed to be consistent with the worksheet formats and tasks described in MIL-STD-1629.
MIL-STD-882	UNSURE	LSA-050, 052, and 054 can be used to obtain safety hazard severity codes and the FMECA data to support the System Safety Program.
DI-R-7108	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-R-7109	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053 055.
DI-R-7081	YES	A review of the LSA report summaries should be made to determine which ones can provide source data applicable to individual reliability models employed.

DI-R-7082	YES	The following LSA reports may apply: 052 and 054.
DI-R-7085A	NO	LSA-060 summary, B record option (FMECA) can be used to produce a standard output report to satisfy this DID.
DI-L-2085A	NO	The LSA-060 and 061 master file report listings can be used to obtain the source data required by this DID.
DI-R-3549A	NO	The LSA-060 and 061 master file report listings can be used to obtain the source data required by this DID.
DI-H-7048	NO	The following LSA reports may apply: 050, 052, and 054.
DI-S-6169	NO	The LSA-060 and 061 master file reports contain all of the data necessary to support development of an ORLA report.
DI-H-7057	NO	The following LSA reports may provide supportive information: 050, 051, 052, 053, 054, 055.
DI-H-7068	NO	LSA-001 - 009, 011-015, 019, and 023 automated outputs all provide data applicable to the requirements of this DID.
DI-R-7095	NO	LSA-023, 051, 052, 054, and 055 reports can provide automated summarization of reliability information.

Logistics Drivers Interfacing with LSAR C Record, Operation and Maintenance Task Summary

Driver	Required	Comments
TASK 301.2.4.1	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 301.2.4.2	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 301.2.4.3	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 301.2.5	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 401.2.1	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 401.2.2	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 401.2.9	NO	Program requirements determine record's applicability.
TASK 401.2.10	NO	Required ILS output products determine record's applicability.
TASK 401.2.11	NO	LSAR structure determines record's applicability.
TASK 501.2.3	NO	Program requirements determine record's applicability.
MIL-STD-785	YES	LSA-023, 051, 052, 054, and 055 reports can provide a summarization of reliability information.
MIL-STD-1629	YES	This data record has been designed to be consistent with the worksheet formats and tasks described in MIL-STD-1629.

DI-S-30554A	NO	The following LSA reports may be useful in providing summarized data: 023 and 015.
DI-L-7189	NO	Use the LSA-004 and 020 reports with the reproducible option in order to completely satisfy this DID requirement.
DI-L-7190	NO	Use the LSA-016 and 017 reports to satisfy the PMAC requirements.
DI-L-2085A	NO	The LSA-060 and 061 master file report listings can be used to obtain the source data required by this DID.
DI-R-3549A	NO	The LSA-060 and 061 master file report listings can be used to obtain the source data required by this DID.
DI-L-7165	NO	Use the LSA-024 summary to satisfy the requirements of this DID.
DI-H-7068	NO	LSA-001 - 009, 011-015, 019, and 023 automated outputs all provide data applicable to the requirements of this DID.
DI-H-7090	NO	Use the G data record option of the LSA-060 report with the LSA-001 through 015 summaries related to personnel considerations.
DI-H-1300	NO	The LSA-011, 002, 011, and 014 output summaries all provide data applicable to the requirements of the DID. There are currently no automated reports using data recorded on the G record.
DI-T-3734A	NO	The LSAR provides the data necessary to satisfy the requirements of this DID. There are no output reports which aid in development of this DID. Use the manual LSAR interface procedures.

DI-S-1815	NO	The following reports all provide data pertinent to this DID: 004, 005, 008, 009, 012, 015, 020, 024, 027, 029, 030, 031, and 053.
DI-M-1517	NO	To satisfy this DID and DI-M-3407C the following report information applies. The LSA-015 and 019 reports can be used to develop the narrative and resource requirements portion of the ops and maintenance instructions. The LSA-004 and 020 reports can totally satisfy the MAC and tool and equipment requirements. LSA-029, 030, and 031 reports can totally satisfy the listing portion of the IPB. LSA-040 through 043 reports can satisfy the requirements of COEIL, AAL, BIIL, and ESML.
DI-S-6174B	NO	Extract available LSAR data from various reports, in particular the LSA-012, and incorporate with non-automated input data sheets E, E1, F, and G.
DI-S-6175B	NO	Extract available LSAR data from the various reports, in particular the LSA-012, and incorporate with LSA-060 report selected against the appropriate E, F, and G records.
DI-E-2143	NO	This record and the LSA-060 report contain data elements which will assist in satisfying the requirements of this DID.
DI-T-2144	NO	Use the LSA-060 report to extract available LSAR data.

Logistics Drivers Interfacing with LSAR D Record,
Operation and Maintenance Task Analysis

Driver	Required	Comments
TASK 301.2.4.1	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 301.2.4.2	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 301.2.4.3	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 301.2.5	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 401.2.1	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 401.2.2	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 401.2.9	NO	Program requirements determine record's applicability.
TASK 401.2.10	NO	Required ILS output products determine record's applicability.
TASK 401.2.11	NO	LSAR structure determines record's applicability.
TASK 501.2.3	NO	Program requirements determine record's applicability.
MIL-STD-470	YES	LSA-019, 023, 051, 053, and 055 output summaries may provide information pertinent to system maintainability considerations. Supporting information on the LSA-001 through 015 output summaries may also be useful.
MIL-STD-785	YES	LSA-023, 051, 052, 054, and 055

		reports can provide a summarization of reliability information.
MIL-STD-1629	YES	This data record has been designed to be consistent with the worksheet formats and tasks described in MIL-STD-1629.
MIL-STD-882	UNSURE	LSA-050, 052, and 054 can be used to obtain safety hazard severity codes and the FMECA data to support the System Safety Program.
DI-R-7108	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-R-7109	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-S-30554A	NO	The following LSA reports may be useful in providing summarized data: 023 and 015.
DI-H-7048	NO	The following LSA reports may apply: 050, 052, and 054.
DI-S-6177B	NO	LSA-005, 019, and 061 report summaries can be used for subsequent arrangement of the data in the applicable format.
DI-H-7057	NO	The following LSA reports may provide supportive information: 050, 051, 052, 053, 054, 055.
DI-H-7068	NO	LSA-001 - 009, 011-015, 019, and 023 automated outputs all provide data applicable to the requirements of this DID.
DI-H-7090	NO	Use the G data record option of the LSA-060 report with the LSA-001 through 015 summaries related to personnel considerations.
DI-H-7091	NO	The LSA-060 report, data record G option and the LSA-001, 002, 006, 007, 008, 011, 012, 014, 015, and

		023 provide information related to the requirements of this DID.
DI-H-3258	NO	Use the LSA-001, 002, 003, 005, 006, 007, 011, 012, 013, 014, and 023 reports to provide training support data.
DI-H-1300	NO	The LSA-011, 002, 011, and 014 output summaries all provide data applicable to the requirements of the DID. There are currently no automated reports using data recorded on the G record.
DI-H-7067	NO	Use the LSA-014 and 015 reports.
DI-H-7069	NO	Use the LSA-014 and 015 reports.
DI-T-3734A	NO	The LSAR provides the data necessary to satisfy the requirements of this DID. There are no output reports which aid in development of this DID. Use the manual LSAR interface procedures.
DI-S-1815	NO	The following reports all provide data pertinent to this DID: 004, 005, 008, 009, 012, 015, 020, 024, 027, 029, 030, 031, and 053.
DI-V-2074	NO	The following LSA reports all provide data pertinent to the support equipment list: 004, 005, 008, 009, 020, and 030. No automated reports are currently generated from the E and E1 data records.
DI-M-6152A	NO	The LSA-015 and 019 reports can be used to develop the operations and maintenance instructions. The LSA-029, 030, and 031 reports can be used to develop the listing portion of the illustrated parts breakdown.
DI-M-1517	NO	To satisfy this DID and DI-M-3407C the following report information applies. The LSA-015 and 019 reports can be used to develop the

narrative and resource requirements portion of the ops and maintenance instructions. The LSA-004 and 020 reports can totally satisfy the MAC and tool and equipment requirements. LSA-029, 030, and 031 reports can totally satisfy the listing portion of the IPB. LSA-040 through 043 reports can satisfy the requirements of COEIL, AAL, BIIL, and ESML.

DI-S-6174B   NO   Extract available LSAR data from various reports, in particular the LSA-012, and incorporate with non-automated input data sheets E, E1, F, and G.

DI-E-2143   NO   This record and the LSA-060 report contain data elements which will assist in satisfying the requirements of this DID.

Logistics Drivers Interfacing with LSAR D1 Record, Personnel and Support Requirements

Driver	Required	Comments
TASK 301.2.4.1	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 301.2.4.2	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 301.2.4.3	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 301.2.5	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 401.2.1	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 401.2.2	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 401.2.4	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 401.2.5	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 401.2.9	NO	Program requirements determine record's applicability.
TASK 401.2.10	NO	Required ILS output products determine record's applicability.
TASK 401.2.11	NO	LSAR structure determines record's applicability.
TASK 501.2.3	NO	Program requirements determine record's applicability.
MIL-STD-470	YES	LSA-019, 023, 051, 053, and 055

		output summaries may provide information pertinent to system maintainability considerations. Supporting information on the LSA-001 through 015 output summaries may also be useful.
MIL-STD-785	YES	LSA-023, 051, 052, 054, and 055 reports can provide a summarization of reliability information.
MIL-STD-1629	YES	This data record has been designed to be consistent with the worksheet formats and tasks described in MIL-STD-1629.
MIL-STD-882	UNSURE	LSA-050, 052, and 054 can be used to obtain safety hazard severity codes and the FMECA data to support the System Safety Program.
DI-R-7108	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-R-7109	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-S-30554A	NO	The following LSA reports may be useful in providing summarized data: 023 and 015.
DI-L-7189	NO	Use the LSA-004 and 020 reports with the reproducible option in order to completely satisfy this DID requirement.
DI-L-7190	NO	Use the LSA-016 and 017 reports to satisfy the PMAC requirements.
DI-L-2085A	NO	The LSA-060 and 061 master file report listings can be used to obtain the source data required by this DID.
DI-R-3549A	NO	The LSA-060 and 061 master file report listings can be used to obtain the source data required by this DID.

DI-H-7048	NO	The following LSA reports may apply: 050, 052, and 054.
DI-S-6177B	NO	LSA-005, 019, and 061 report summaries can be used for subsequent arrangement of the data in the applicable format.
DI-L-7165	NO	Use the LSA-024 summary to satisfy the requirements of this DID.
DI-S-6169	NO	The LSA-060 and 061 master file reports contain all of the data necessary to support development of an ORLA report.
DI-H-7057	NO	The following LSA reports may provide supportive information: 050, 051, 052, 053, 054, 055.
DI-H-7068	NO	LSA-001 - 009, 011-015, 019, and 023 automated outputs all provide data applicable to the requirements of this DID.
DI-H-7090	NO	Use the G data record option of the LSA-060 report with the LSA-001 through 015 summaries related to personnel considerations.
DI-H-7091	NO	The LSA-060 report, data record G option and the LSA-001, 002, 006, 007, 008, 011, 012, 014, 015, and 023 provide information related to the requirements of this DID.
DI-H-3258	NO	Use the LSA-001, 002, 003, 005, 006, 007, 011, 012, 013, 014, and 023 reports to provide training support data.
DI-H-1300	NO	The LSA-011, 002, 011, and 014 output summaries all provide data applicable to the requirements of the DID. There are currently no automated reports using data recorded on the G record.
DI-H-7067	NO	Use the LSA-014 and 015 reports.

DI-H-7069	NO	Use the LSA-014 and 015 reports.
DI-T-3734A	NO	The LSAR provides the data necessary to satisfy the requirements of this DID. There are no output reports which aid in development of this DID. Use the manual LSAR interface procedures.
DI-S-1815	NO	The following reports all provide data pertinent to this DID: 004, 005, 008, 009, 012, 015, 020, 024, 027, 029, 030, 031, and 053.
DI-V-2074	NO	The following LSA reports all provide data pertinent to the support equipment list: 004, 005, 008, 009, 020, and 030. No automated reports are currently generated from the E and E1 data records.
DI-M-6152A	NO	The LSA-015 and 019 reports can be used to develop the operations and maintenance instructions. The LSA-029, 030, and 031 reports can be used to develop the listing portion of the illustrated parts breakdown.
DI-M-1517	NO	To satisfy this DID and DI-M-3407C the following report information applies. The LSA-015 and 019 reports can be used to develop the narrative and resource requirements portion of the ops and maintenance instructions. The LSA-004 and 020 reports can totally satisfy the MAC and tool and equipment requirements. LSA-029, 030, and 031 reports can totally satisfy the listing portion of the IPB. LSA-040 through 043 reports can satisfy the requirements of COEIL, AAL, BIIL, and ESML.
DI-S-6174B	NO	Extract available LSAR data from various reports, in particular the LSA-012, and incorporate with

		non-automated input data sheets E, E1, F, and G.
DI-S-6175B	NO	Extract available LSAR data from the various reports, in particular the LSA-012, and incorporate with LSA-060 report selected against the appropriate E, F, and G records.
DI-E-2143	NO	This record and the LSA-060 report contain data elements which will assist in satisfying the requirements of this DID.
DI-T-2144	NO	Use the LSA-060 report to extract available LSAR data.

Logistics Drivers Interfacing with LSAR E Record,
Support Equipment and Training Material Description and
Justification

Driver	Required	Comments
TASK 401.2.3	NO	Program support resource requirements determine this record's applicability.
TASK 401.2.9	NO	Program requirements determine record's applicability.
TASK 401.2.10	NO	Required ILS output products determine record's applicability.
TASK 401.2.11	NO	LSAR structure determines record's applicability.
TASK 501.2.3	NO	Program requirements determine record's applicability.
MIL-STD-470	YES	LSA-019, 023, 051, 053, and 055 output summaries may provide information pertinent to system maintainability considerations. Supporting information on the LSA-001 through 015 output summaries may also be useful.
DI-R-7108	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-R-7109	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-S-6177B	NO	LSA-005, 019, and 061 report summaries can be used for subs⌐ ⌐it arrangement of the d⌐ , the applicable format.
DI-H-7057	NO	The following LSA reports may provide supportive information: 050, 051, 052, 053, 054, 055.
DI-H-7068	NO	LSA-001 - 009, 011-015, 019, and 023 automated outputs all provide

data applicable to the
requirements of this DID.

DI-H-7090	NO	Use the G data record option of the LSA-060 report with the LSA-001 through 015 summaries related to personnel considerations.
DI-H-3258	NO	Use the LSA-001, 002, 003, 005, 006, 007, 011, 012, 013, 014, and 023 reports to provide training support data.
DI-H-6135A	NO	The LSA-060 report can provide this information.
DI-H-7067	NO	Use the LSA-014 and 015 reports.
DI-H-7069	NO	Use the LSA-014 and 015 reports.
DI-ILSS-80118	NO	The LSA-070 report satisfies the requirements of this DID.
DI-L-1421A	NO	The LSA-060 selected against the support equipment LCN can be used to provide the required data.
DI-T-3734A	NO	The LSAR provides the data necessary to satisfy the requirements of this DID. There are no output reports which aid in development of this DID. Use the manual LSAR interface procedures.
DI-V-6186A	NO	Use the LSA-009 report and obtain the prime contractor's part number and current pricing information.
DI-S-1815	NO	The following reports all provide data pertinent to this DID: 004, 005, 008, 009, 012, 015, 020, 024, 027, 029, 030, 031, and 053.
DI-V-2074	NO	The following LSA reports all provide data pertinent to the support equipment list: 004, 005, 008, 009, 020, and 030. No automated reports are currently generated from the E and E1 data records.

DI-S-6174B	NO	Extract available LSAR data from various reports, in particular the LSA-012, and incorporate with non-automated input data sheets E, E1, F, and G.
DI-S-6175B	NO	Extract available LSAR data from the various reports, in particular the LSA-012, and incorporate with LSA-060 report selected against the appropriate E, F, and G records.
DI-E-2143	NO	This record and the LSA-060 report contain data elements which will assist in satisfying the requirements of this DID.
DI-S-30569	NO	The LSA-060 report selected against the support equipment LCN can be used to partially satisfy this DID.

Logistics Drivers Interfacing with LSAR E1 Record, Support Equipment and Training Material Description and Justification (Cont.)

Driver	Required	Comments
TASK 401.2.3	NO	Program support resource requirements determine this record's applicability.
TASK 401.2.9	NO	Program requirements determine record's applicability.
TASK 401.2.10	NO	Required ILS output products determine record's applicability.
TASK 401.2.11	NO	LSAR structure determines record's applicability.
TASK 501.2.3	NO	Program requirements determine record's applicability.
MIL-STD-470	YES	LSA-019, 023, 051, 053, and 055 output summaries may provide information pertinent to system maintainability considerations. Supporting information on the LSA-001 through 015 output summaries may also be useful.
DI-R-7108	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-R-7109	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-S-6177B	NO	LSA-005, 019, and 061 report summaries can be used for subsequent arrangement of the data in the applicable format.
DI-H-7057	NO	The following LSA reports may provide supportive information: 050, 051, 052, 053, 054, 055.
DI-H-7058	NO	LSA-001 - 009, 011-015, 019, and 023 automated outputs all provide

		data applicable to the requirements of this DID.
DI-H-7090	NO	Use the G data record option of the LSA-060 report with the LSA-001 through 015 summaries related to personnel considerations.
DI-H-3258	NO	Use the LSA-001, 002, 003, 005, 006, 007, 011, 012, 013, 014, and 023 reports to provide training support data.
DI-H-6135A	NO	The LSA-060 report can provide this information.
DI-H-7067	NO	Use the LSA-014 and 015 reports.
DI-H-7069	NO	Use the LSA-014 and 015 reports.
DI-ILSS-80118	NO	The LSA-070 report satisfies the requirements of this DID.
DI-L-1421A	NO	The LSA-060 selected against the support equipment LCN can be used to provide the required data.
DI-T-3734A	NO	The LSAR provides the data necessary to satisfy the requirements of this DID. There are no output reports which aid in development of this DID. Use the manual LSAR interface procedures.
DI-V-6186A	NO	Use the LSA-009 report and obtain the prime contractor's part number and current pricing information.
DI-S-1815	NO	The following reports all provide data pertinent to this DID: 004, 005, 008, 009, 012, 015, 020, 024, 027, 029, 030, 031, and 053.
DI-V-2074	NO	The following LSA reports all provide data pertinent to the support equipment list: 004, 005, 008, 009, 020, and 030. No automated reports are currently generated from the E and E1 data records.

DI-S-6174B	NO	Extract available LSAR data from various reports, in particular the LSA-012, and incorporate with non-automated input data sheets E, E1, F, and G.
DI-S-6175B	NO	Extract available LSAR data from the various reports, in particular the LSA-012, and incorporate with LSA-060 report selected against the appropriate E, F, and G records.
DI-E-2143	NO	This record and the LSA-060 report contain data elements which will assist in satisfying the requirements of this DID.
DI-T-2144	NO	Use the LSA-060 report to extract available LSAR data.
DI-S-30569	NO	The LSA-060 report selected against the support equipment LCN can be used to partially satisfy this DID.

Logistics Drivers Interfacing with LSAR E2 Record, Unit Under Test and Automatic Test Program(s) Description

Driver	Required	Comments
TASK 401.2.3	NO	Program support resource requirements determine this record's applicability.
TASK 401.2.9	NO	Program requirements determine record's applicability.
TASK 401.2.10	NO	Required ILS output products determine record's applicability.
TASK 401.2.11	NO	LSAR structure determines record's applicability.
TASK 501.2.3	NO	Program requirements determine record's applicability.
MIL-STD-470	YES	LSA-019, 023, 051, 053, and 055 output summaries may provide information pertinent to system maintainability considerations. Supporting information on the LSA-001 through 015 output summaries may also be useful.
DI-L-1421A	NO	The LSA-060 selected against the support equipment LCN can be used to provide the required data.
DI-S-6174B	NO	Extract available LSAR data from various reports, in particular the LSA-012, and incorporate with non-automated input data sheets E, E1, F, and G.
DI-S-6175B	NO	Extract available LSAR data from the various reports, in particular the LSA-012, and incorporate with LSA-060 report selected against the appropriate E, F, and G records.
DI-E-2143	NO	This record and the LSA-060 report contain data elements which will assist in satisfying the

requirements of this DID.

DI-T-2144   NO   Use the LSA-060 report to extract
                               available LSAR data.

Logistics Drivers Interfacing with LSAR F Record, Facility Description and Justification

Driver	Required	Comments
TASK 401.2.3	NO	Program support resource requirements determine this record's applicability.
TASK 401.2.9	NO	Program requirements determine record's applicability.
TASK 401.2.10	NO	Required ILS output products determine record's applicability.
TASK 401.2.11	NO	LSAR structure determines record's applicability.
TASK 501.2.3	NO	Program requirements determine record's applicability.
MIL-STD-470	YES	LSA-019, 023, 051, 053, and 055 output summaries may provide information pertinent to system maintainability considerations. Supporting information on the LSA-001 through 015 output summaries may also be useful.
DI-R-7108	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-R-7109	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-H-7057	NO	The following LSA reports may provide supportive information: 050, 051, 052, 053, 054, 055.
DI-H-7068	NO	LSA-001 - 009, 011-015, 019, and 023 automated outputs all provide data applicable to the requirements of this DID.
DI-H-6135A	NO	The LSA-060 report can provide this information.

DI-S-1815	NO	The following reports all provide data pertinent to this DID: 004, 005, 008, 009, 012, 015, 020, 024, 027, 029, 030, 031, and 053.
DI-S-6174B	NO	Extract available LSAR data from various reports, in particular the LSA-012, and incorporate with non-automated input data sheets E, E1, F, and G.
DI-S-6175B	NO	Extract available LSAR data from the various reports, in particular the LSA-012, and incorporate with LSA-060 report selected against the appropriate E, F, and G records.

Logistics Drivers Interfacing with LSAR G Record, Skill Evaluation and Justification

Driver	Required	Comments
TASK 401.2.3	NO	Program support resource requirements determine this record's applicability.
TASK 401.2.4	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 401.2.5	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 401.2.9	NO	Program requirements determine record's applicability.
TASK 401.2.10	NO	Required ILS output products determine record's applicability.
TASK 401.2.11	NO	LSAR structure determines record's applicability.
TASK 501.2.3	NO	Program requirements determine record's applicability.
MIL-STD-470	YES	LSA-019, 023, 051, 053, and 055 output summaries may provide information pertinent to system maintainability considerations. Supporting information on the LSA-001 through 015 output summaries may also be useful.
DI-R-7108	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-R-7109	YES	The following LSA reports may apply: 001-015, 019, 023, 051, 053, 055.
DI-H-7057	NO	The following LSA reports may provide supportive information: 050, 051, 052, 053, 054, 055.

DI-H-7068	NO	LSA-001 - 009, 011-015, 019, and 023 automated outputs all provide data applicable to the requirements of this DID.
DI-H-7090	NO	Use the G data record option of the LSA-060 report with the LSA-001 through 015 summaries related to personnel considerations.
DI-H-7091	NO	The LSA-060 report, data record G option and the LSA-001, 002, 006, 007, 008, 011, 012, 014, 015, and 023 provide information related to the requirements of this DID.
DI-H-3258	NO	Use the LSA-001, 002, 003, 005, 006, 007, 011, 012, 013, 014, and 023 reports to provide training support data.
DI-H-1300	NO	The LSA-011, 002, 011, and 014 output summaries all provide data applicable to the requirements of the DID. There are currently no automated reports using data recorded on the G record.
DI-H-7067	NO	Use the LSA-014 and 015 reports.
DI-H-7069	NO	Use the LSA-014 and 015 reports.
DI-S-6174B	NO	Extract available LSAR data from various reports, in particular the LSA-012, and incorporate with non-automated input data sheets E, E1, F, and G.
DI-S-6175B	NO	Extract available LSAR data from the various reports, in particular the LSA-012, and incorporate with LSA-060 report selected against the appropriate E, F, and G records.

Logistics Drivers Interfacing with LSAR H Record, Support Items Identification

Driver	Required	Comments
TASK 401.2.8	NO	Program provisioning requirements should be reviewed against Data Element Dictionary prior to completion of the DD Form 1949-1.
TASK 401.2.9	NO	Program requirements determine record's applicability.
TASK 401.2.10	NO	Required ILS output products determine record's applicability.
TASK 401.2.11	NO	LSAR structure determines record's applicability.
TASK 501.2.3	NO	Program requirements determine record's applicability.
MIL-STD-785	YES	LSA-023, 051, 052, 054, and 055 reports can provide a summarization of reliability information.
MIL-STD-2073	YES	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
MIL-STD-1561	NO	LSA-036, Provisioning Requirements, can be tailored to specific requirements by using the various parameters allowed by LSAR.
MIL-STD-882	UNSURE	LSA-050, 052, and 054 can be used to obtain safety hazard severity codes and the FMECA data to support the System Safety Program.
DI-L-7189	NO	Use the LSA-004 and 020 reports with the reproducible option in order to completely satisfy this DID requirement.
DI-L-7190	NO	Use the LSA-016 and 017 reports to satisfy the PMAC requirements.

DI-L-2085A	NO	The LSA-060 and 061 master file report listings can be used to obtain the source data required by this DID.
DI-R-3549A	NO	The LSA-060 and 061 master file report listings can be used to obtain the source data required by this DID.
DI-S-6177B	NO	LSA-005, 019, and 061 report summaries can be used for subsequent arrangement of the data in the applicable format.
DI-L-7165	NO	Use the LSA-024 summary to satisfy the requirements of this DID.
DI-S-6169	NO	The LSA-060 and 061 master file reports contain all of the data necessary to support development of an ORLA report.
DI-V-6186A	NO	Use the LSA-009 report and obtain the prime contractor's part number and current pricing information.
DI-V-7193	NO	Use the LSA-151, Provisioning Parts List Index, which will be automatically produced upon request.
DI-V-7192	NO	The LSA-036, Provisioning Requirements Summary, will satisfy the requirements of this DID.
DI-V-6180	NO	Use the LSA-009, 036, and 151 reports, as required, to produce the data requirements of this DID.
DI-S-1815	NO	The following reports all provide data pertinent to this DID: 004, 005, 008, 009, 012, 015, 020, 024, 027, 029, 030, 031, and 053.
DI-V-7002A	NO	The LSA-036 report summary will satisfy the requirements of this DID. The PPL can be tailored to specific requirements by using the

		various parameters allowed in the request transaction.
DI-V-7003A	NO	The LSA-036 report summary will satisfy the requirements of this DID.
DI-V-7004A	NO	The LSA-036 report summary will satisfy the requirements of this DID.
DI-V-7005A	NO	The LSA-036 report summary will satisfy the requirements of this DID.
DI-V-7006A	NO	The LSA-036 report summary will satisfy the requirements of this DID.
DI-V-7007A	NO	The LSA-036 report summary will satisfy the requirements of this DID.
DI-V-7008A	NO	The LSA-036 report summary will satisfy the requirements of this DID.
DI-V-7009A	NO	The LSA-036 report summary will satisfy the requirements of this DID.
DI-V-7011A	NO	The LSA-036 report summary will satisfy the requirements of this DID.
DI-V-7016F	NO	The LSAR provides the capability to request DLSC screening for the reference numbers submitted via the H input data record and stored on the parts master file. The LSA-032 summary can provide a cross reference between reference numbers and submitter's control number.
DI-M-6152A	NO	The LSA-015 and 019 reports can be used to develop the operations and maintenance instructions. The LSA-029, 030, and 031 reports can be used to develop the listing portion of the illustrated parts

breakdown.

DI-M-1517	NO	To satisfy this DID and DI-M-3407C the following report information applies. The LSA-015 and 019 reports can be used to develop the narrative and resource requirements portion of the ops and maintenance instructions. The LSA-004 and 020 reports can totally satisfy the MAC and tool and equipment requirements. LSA-029, 030, and 031 reports can totally satisfy the listing portion of the IPB. LSA-040 through 043 reports can satisfy the requirements of COEIL, AAL, BIIL, and ESML.

Logistics Drivers Interfacing with LSAR H1 Record, Support Items Identification (Application Related)

Driver	Required	Comments
TASK 401.2.8	NO	Program provisioning requirements should be reviewed against Data Element Dictionary prior to completion of the DD Form 1949-1.
TASK 401.2.9	NO	Program requirements determine record's applicability.
TASK 401.2.10	NO	Required ILS output products determine record's applicability.
TASK 401.2.11	NO	LSAR structure determines record's applicability.
TASK 501.2.3	NO	Program requirements determine record's applicability.
MIL-STD-785	YES	LSA-023, 051, 052, 054, and 055 reports can provide a summarization of reliability information.
MIL-STD-2073	YES	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
MIL-STD-1561	NO	LSA-036, Provisioning Requirements, can be tailored to specific requirements by using the various parameters allowed by LSAR.
DI-L-7190	NO	Use the LSA-016 and 017 reports to satisfy the PMAC requirements.
DI-L-2085A	NO	The LSA-060 and 061 master file report listings can be used to obtain the source data required by this DID.
DI-R-3549A	NO	The LSA-060 and 061 master file report listings can be used to obtain the source data required by this DID.

DI-L-7165	NO	Use the LSA-024 summary to satisfy the requirements of this DID.
DI-S-6169	NO	The LSA-060 and 061 master file reports contain all of the data necessary to support development of an ORLA report.
DI-V-6186A	NO	Use the LSA-009 report and obtain the prime contractor's part number and current pricing information.
DI-V-7193	NO	Use the LSA-151, Provisioning Parts List Index, which will be automatically produced upon request.
DI-V-7192	NO	The LSA-036, Provisioning Requirements Summary, will satisfy the requirements of this DID.
DI-V-6180	NO	Use the LSA-009, 036, and 151 reports, as required, to produce the data requirements of this DID.
DI-S-1815	NO	The following reports all provide data pertinent to this DID: 004, 005, 008, 009, 012, 015, 020, 024, 027, 029, 030, 031, and 053.
DI-V-7002A	NO	The LSA-036 report summary will satisfy the requirements of this DID. The PPL can be tailored to specific requirements by using the various parameters allowed in the request transaction.
DI-V-7003A	NO	The LSA-036 report summary will satisfy the requirements of this DID.
DI-V-7004A	NO	The LSA-036 report summary will satisfy the requirements of this DID.
DI-V-7005A	NO	The LSA-036 report summary will satisfy the requirements of this DID.

DI-V-7006A	NO	The LSA-036 report summary will satisfy the requirements of this DID.
DI-V-7007A	NO	The LSA-036 report summary will satisfy the requirements of this DID.
DI-V-7008A	NO	The LSA-036 report summary will satisfy the requirements of this DID.
DI-V-7009A	NO	The LSA-036 report summary will satisfy the requirements of this DID.
DI-V-7011A	NO	The LSA-036 report summary will satisfy the requirements of this DID.
DI-M-6152A	NO	The LSA-015 and 019 reports can be used to develop the operations and maintenance instructions. The LSA-029, 030, and 031 reports can be used to develop the listing portion of the illustrated parts breakdown.
DI-M-1517	NO	To satisfy this DID and DI-M-3407C the following report information applies. The LSA-015 and 019 reports can be used to develop the narrative and resource requirements portion of the ops and maintenance instructions. The LSA-004 and 020 reports can totally satisfy the MAC and tool and equipment requirements. LSA-029, 030, and 031 reports can totally satisfy the listing portion of the IPB. LSA-040 through 043 reports can satisfy the requirements of COEIL, AAL, BIIL, and ESML.

Logistics Drivers Interfacing with LSAR J Record, Transportability Engineering Characteristics

Driver	Required	Comments
TASK 401.2.3	NO	Program support resource requirements determine this record's applicability.
TASK 401.2.7	NO	Review against Data Element Dictionary prior to completion of DD Form 1949-1.
TASK 401.2.9	NO	Program requirements determine record's applicability.
TASK 401.2.10	NO	Required ILS output products determine record's applicability.
TASK 401.2.11	NO	LSAR structure determines record's applicability.
TASK 501.2.3	NO	Program requirements determine record's applicability.
MIL-STD-470	YES	LSA-019, 023, 051, 053, and 055 output summaries may provide information pertinent to system maintainability considerations. Supporting information on the LSA-001 through 015 output summaries may also be useful.
MIL-STD-785	YES	LSA-023, 051, 052, 054, and 055 reports can provide a summarization of reliability information.
MIL-STD-882	UNSURE	LSA-050, 052, and 054 can be used to obtain safety hazard severity codes and the FMECA data to support the System Safety Program.

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VITA

Captain Michael A. McGovern ███████████████████ ███████████████████████ ████████████████████ ██████████████████████ █████████████████████████attended the United States Air Force Academy, from which he received the degree of Bachelor of Science in International Affairs in May 1981 and at the same time received a commission in the USAF. He was a project manager on the C-20A Program from January 1982 to March 1983 within Aeronautical Systems Division, Directorate for Airlift and Trainers. He was Acting Assistant Director of Management Operations from March 1983 to November 1983 in the same directorate. Captain McGovern was again assigned to the C-20A Program Office as a project manager from December 1983 to May 1985. He then was the Deputy Program Manager for Logistics for the C-5A Space Cargo Modification Program in the Air Force Acquisition Logistics Center, Airlift Division until entering the School of Systems and Logistics, Air Force Institute of Technology, in May 1988.

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Abstract

This thesis involves the development of a personal computer program to help tailor Logistics Support Analysis Record (LSAR), MIL-STD-1388-2A, requirements for system/ equipment acquisition efforts. It is referred to as the LSAR Decision Support System (DSS) Program. This program is intended to aid working level logisticians bridge the gap between tailoring MIL-STD-1388-1A tasks and completing the DD Form 1949-1, the end product of a LSAR tailoring effort.

There are five main features in the program: 1) an overview of the DSS, 2) a synopsis of LSAR tailoring guidance, 3) the actual tailoring portion, 4) a program to review and update a user's previous effort, and 5) a program to produce output to either screen or printer. The programming language used is dBASE III PLUS; it is required to run the LSAR DSS Program. The program structure is designed to be similar to other dBASE III PLUS LSA programs which are currently in development and allows for easy update and/or expansion.